United States
Department of
Agriculture

Soil
Conservation
Service

Salt Lake City
Utah

WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department of Natural Resources

June 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTIAN, NEAR THE WEST FORK OF HYALITE CREEK, IN MONTANA.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchroage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Inventigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR UTAH

and

FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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SALT LAKE CITY, UTAH

In Cooperation with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES

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PROSPECTIVE WATER SUPPLIES

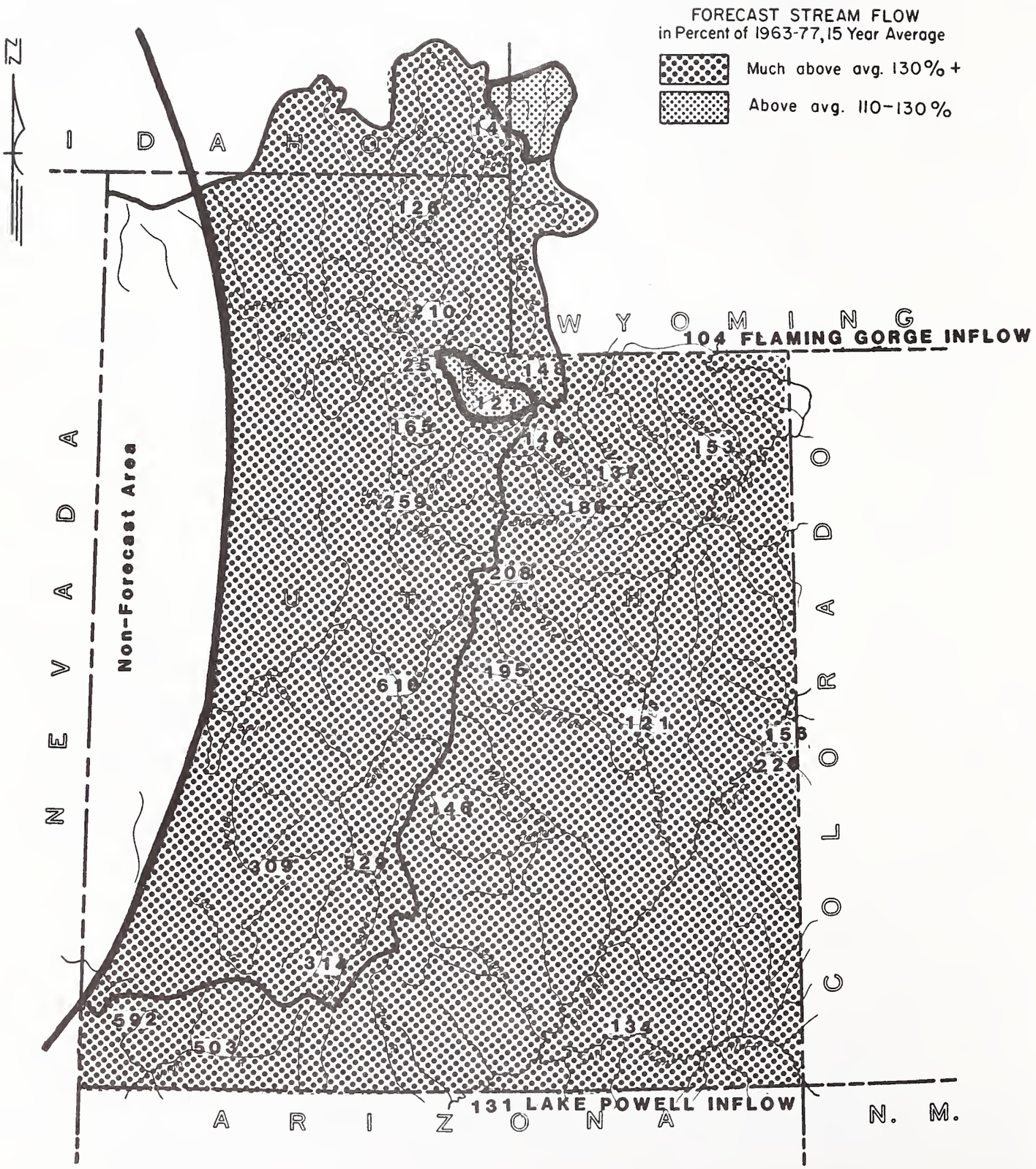
Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

June 1, 1983

Approximate Date

50 0 50 100

SCALE IN MILES



As Of June 1, 1983

* *
* Utah's 1983 water supply outlook ranges from above *
* average to well above average. Many areas of the state *
* have so much water that farming is impossible. Snow *
* melt has been delayed at least a month causing snow *
* cover percentages to range from 2 1/2 to about 80 times *
* average. Soils are much wetter than average causing *
* mud slides and reservoirs are above average and in most *
* cases spilling. Streamflow for the May through July *
* period is forecast to be the highest of record on many *
* streams. Utah's water users are expected to have too *
* much water in many areas of the state this year. *
* *

SNOW COVER

Snow water content continued to increase until about the middle of May this year delaying the start of snow melt at least a month. Snow cover June 1st ranged from 238% of average on the Lower Bear and Logan Rivers to 7,900% on the Blue Mountains in southeastern Utah. Other watersheds are as follows: Ogden River 423%, Weber River 518%, Provo-Utah Lake 528%, Salt Lake Front Streams 375%, Duchesne River 375%, Ashley Creek 480%, Lower Sevier 576%, Upper Sevier 1,144%, Beaver River 600%, Coal Creek 786%, Virgin River 653%, Fremont River 2,100%, Price River 5,100% and LaSal Mountains 2,119%. These large percentages reflect the late melt since many snow course averages for June 1st are less than 1 inch of water and this year have 10 to 20 inches of water left to melt.

PRECIPITATION

Precipitation at mountain stations ranged from about 77% of average above Blanding to 333% at Tony Grove R.S. above Logan. Several sites at higher elevations on the San Pitch were above 300% for the month of May.

SOIL MOISTURE

Mountain soils have been wetter than usual all winter and spring. Snow melt has added more water to many steep unstable areas causing mud slides over much of the state.

RESERVOIR STORAGE

Storage in 16 of Utah's key irrigation reservoirs is now 103% of average and 92% of total capacity. Many reservoirs have been releasing water all spring to make room for peak runoff. Utah Lake is now 3.8 feet above compromise and Great Salt Lake is 4204.30 feet above mean sea level.

STREAMFLOW FORECASTS

Streamflow forecasts have again been increased dramatically in many cases and now range from 104% on the Smiths Fork to 686% for the Inflow Vermillion Dam to Gunnison on the Lower Sevier. Some observed streamflow for the month of May exceeded the May forecast for the total May-June period.

Other forecasts are as follows: Bear River at Utah-Wyoming Line 148%, at Harer, Idaho 144%, Logan River 126%, Pineview Inflow 211%, Weber River at Oakley 121%, at Gateway 149%, Provo at Deer Creek Dam 173%, Utah Lake Inflow 259% and Big Cottonwood Creek 165%. Great Salt Lake is forecast to rise to 4204.5 to 4204.8 feet above mean sea level.

The Duchesne is forecast 143% at Duchesne and 216% at Randlett. Ashley Creek is forecast 153%, Uintah 172%, Lakefork 137% and Rock Creek 139% of the May-July average. Price River is forecast 269%, Huntington 197%, Cottonwood 195%, Ferron 244%, Muddy 222% and Seven Mile Creek 146%.

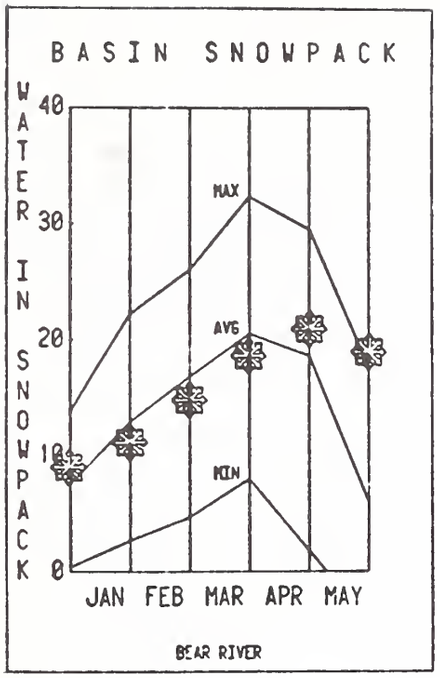
Sevier River forecasts range from 314% at Hatch to 618% at Gunnison for the May-July period. Salina Creek is forecast 433%, Chicken Creek 354%, Oak Creek 293%, Chalk Creek 422%, Pleasant Creek 418% and Salt Creek 244% of average.

Beaver River is forecast 309% at Beaver and 590% for Minersville Inflow. Coal Creek is forecast 352%, Virgin River 503% at Hurricane and Santa Clara 592% of average for the May-June period.

Flooding has already occurred on most streams and streamflow is expected to stay high much later than usual this summer causing inundated fields and wet soils late into June and possibly early July. This year the problem of too much water is likely along many of Utah's stream channels.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
Bear River	Bear Lake	1421.0	1273.5	1153.1	1134.2
	Woodruff Narrows	57.3	60.6	57.3	26.5
	Woodruff Creek	4.0	3.6	4.0	---
Beaver River	Minersville (RkyFd)	23.3	23.3	16.3	23.3
Little Bear	Hyrum	15.3	11.6	15.3	15.3
	Porcupine	11.3	12.9	11.3	11.3
Ogden	Causey	6.9	7.1	7.0	6.9
	Pineview	110.1	106.4	109.9	110.1
Provo	Deer Creek	149.7	140.6	146.2	142.7
Settlement Creek	Settlement Creek	1.2	1.2	1.0	---
	Vernon Creek	0.6	0.6	0.6	---
Sevier River	Gunnison	18.2	18.2	18.2	18.2
	Otter Creek	52.5	52.7	52.7	52.5
	Piute	71.8	71.8	69.3	71.8
	Sevier Bridge	236.0	236.1	195.6	---
	Panguitch Lake	22.3	23.0[e]	22.3	---
Spanish Fork	Strawberry	270.0	294.9	253.5	---
Utah Lake	Utah Lake	883.9	1269.6	1024.1	---
Weber	East Canyon	48.1	49.7	48.9	48.1
	Echo	73.9	73.4	66.9	72.0
	Lost Creek	20.0	21.3	20.4	20.0
	Rockport	60.9	53.2	46.2	61.8
	Willard Bay	193.3	167.5	175.0	193.3
COLORADO RIVER BASIN					
Ashley Creek	Steinaker	33.3	29.0	33.3	---
	Red Fleet	26.0	23.9	---	---
Colorado	Blue Mesa	829.5	562.0	394.9	450.0
	Lake Powell	25002.0	24216.0	21127.0	19600.0
Green	Flaming Gorge	3749.0	3416.0	2723.0	2566.0
Lakefork	Moon Lake	35.8	32.1	16.8	---
Price River	Scofield	65.8	52.4	66.3	---
San Juan	Navajo	1696.0	1444.0	1397.9	1400.0
	Ken's Lake	2.3	2.2	1.7	---
San Rafael	Huntington North	3.9	3.9[e]	3.3	---
	Joe's Valley	54.6	45.4	39.3	---
	Mill Site	16.7	17.0[e]	14.7	---
Strawberry	Currant Creek	---	4.0	---	---
	Starvation	165.3	165.9	164.4	---
	Soldier Creek	951.4	90.5	---	---
Uintah	Bottle Hollow	11.3	11.1	10.9	---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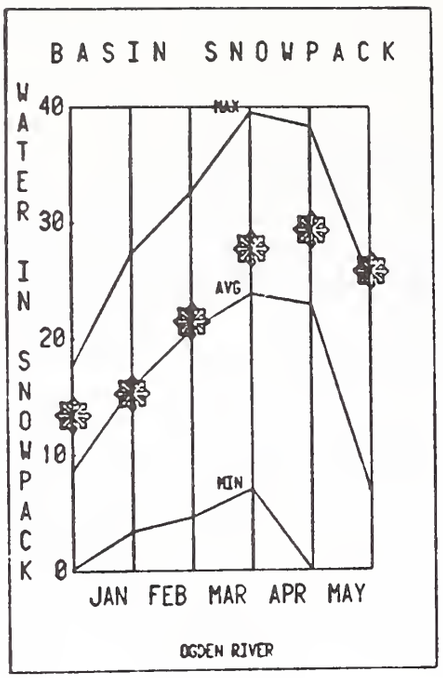
JAN FEB MAR APR MAY
BEAR RIVER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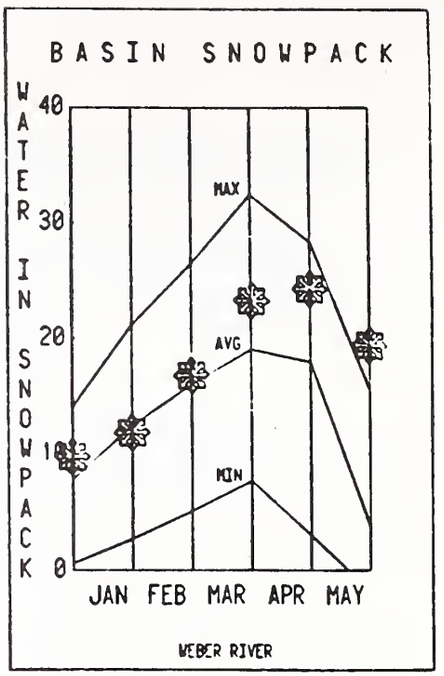
OGDEN RIVER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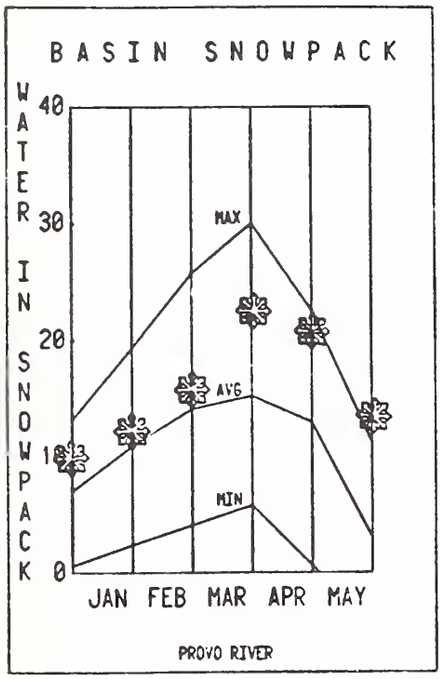
WEBER RIVER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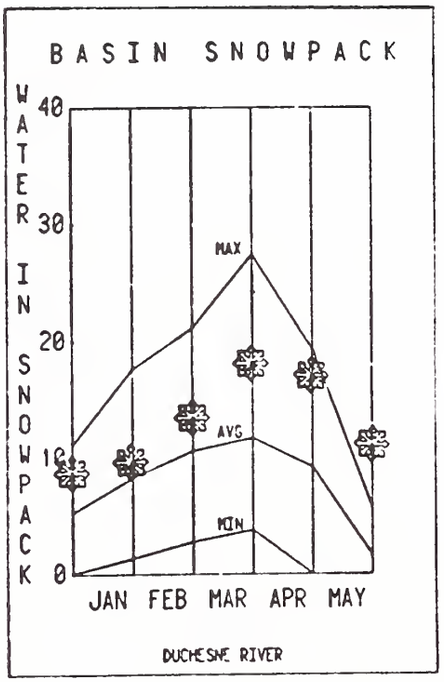
PROVO RIVER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WATER IN SNOWPACK
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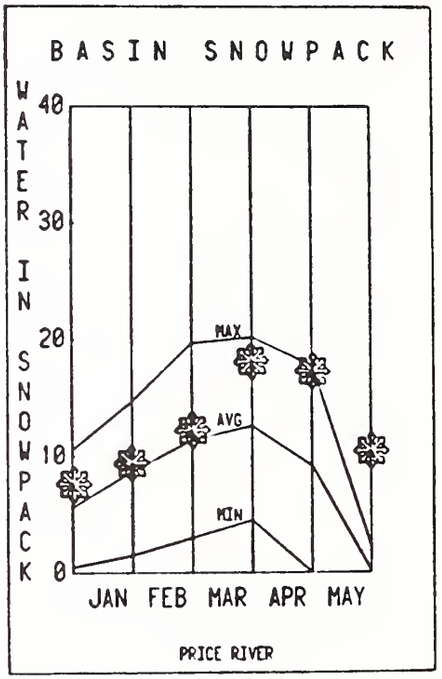
DUCHESNE RIVER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WATER IN SNOWPACK
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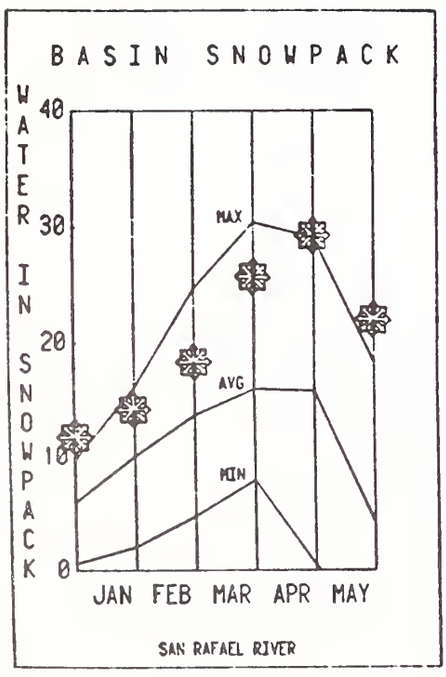
JAN FEB MAR APR MAY
PRICE RIVER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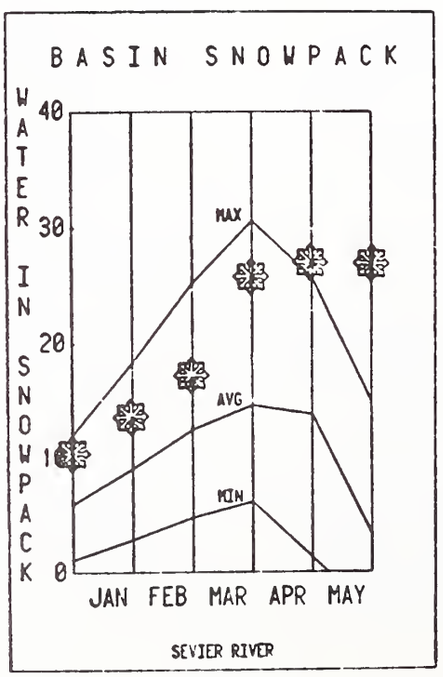
SAN RAFAEL RIVER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WATER IN SNOWPACK
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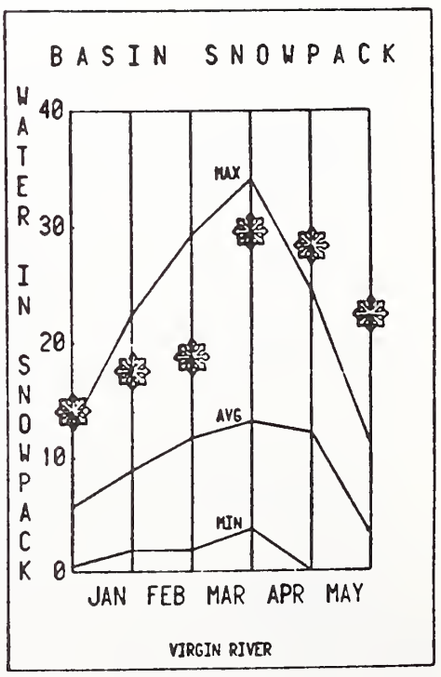
JAN FEB MAR APR MAY
SEVIER RIVER


BASIN SNOWPACK
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MAX
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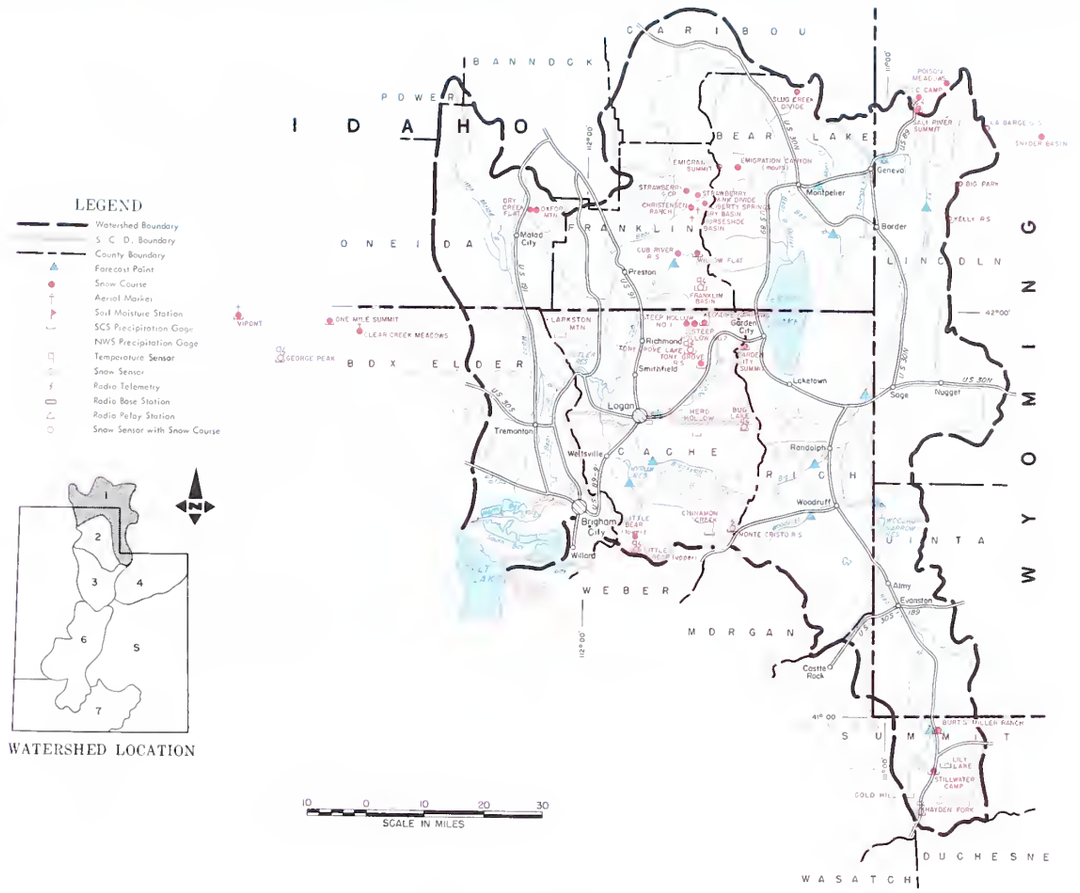
JAN FEB MAR APR MAY
VIRGIN RIVER

WATER SUPPLY OUTLOOK
BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 238% of the June 1 average on the Lower Bear and Logan River to 343% on the Upper Bear. Snow melt is delayed about a month this year causing much higher water content remaining on June 1st.

PRECIPITATION at mountain stations ranged from 151% of the May average at Burts Miller Ranch to 333% at Tony Grove Ranger Station.

SOIL MOISTURE is much above average and has caused many earth slides this year.

RESERVOIR STORAGE is above average with most reservoirs full or releasing water to prepare for peak runoff.

STREAMFLOW FORECASTS have increased again after a much heavier than expected May runoff on some streams. Forecasts now range from 104% of average on Smiths Fork to 231% on Little Bear. A good portion of the flow on Little Bear has already come out in May. Other forecasts are as follows: Bear at Utah-Wyoming Line 148%, at Woodruff 151%, at Randolph 160%, at Harer, Idaho 144%, Woodruff Creek 109%, Big Creek 138%, Thomas Fork 118%, Cub River 106%, Blacksmith Fork 165% and Logan River 126% of the May-July average.

Most streams in this area except those heading at the higher elevations should have already peaked.

USDA-SCS-PORTLAND, OR 1981 M7-OL-22027-1

BEAR RIVER BASIN IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average +
BEAR RIVER					
Bear nr UT-Wyo. State Line	161	148	May-July	146	109
Bear nr Woodruff	190	151	May-July	144	126
Woodruff Crk nr Woodruff, UT	17.7	109	May-July	22	16.3
Big Creek nr Randolph, UT	6.6	138	May-July	--	4.8
Bear nr Randolph	147	160	May-July	118	92
Thomas Fork nr ID-WY State Ln	41	118	May-Sept	--	30
Smith's Fork nr Border, WY	125	104	May-Sept	--	112
Bear at Harer, Idaho 1/	391	144	May-Sept	--	271
Logan nr Logan 1/	132	126	May-July	157	105
Blacksmith Fork nr Hyrum	66	165	May-July	63	40
Little Bear nr Paradise	60	231	May-June	43	26
Cub River nr Preston, ID	52	106	May-Sept	--	--

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
BEAR RIVER	13	149	256
UPPER BEAR RIVER	4	227	343
LOWER BEAR RIVER	9	135	238
LOGAN RIVER	7	135	238

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
BEAR RIVER	Bear Lake	1421.0	1273.5	1153.1	1134.2
	Woodruff Narrows	57.3	60.6	57.3	26.5
	Woodruff Creek	4.0	3.6	4.0	--
LITTLE BEAR	Hyrum	15.3	11.6	15.3	15.3
	Porcupine	11.3	12.9	11.3	11.3

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Big Creek nr Randolph	60-100	63
Logan River nr Logan	970-1260	1016
Woodruff Creek nr Woodruff	240-390	267
Little Bear nr Paradise	460-780	507
Bear nr. Ut.-Wyo. Stateline	2150-2520	1600

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Burts-Miller Ranch	5/28	0	0.0	0.0	0.0[b]
Cub River R.S.	5/27	0	0.0	0.0	--
Emigrant Summit					
Franklin Basin	5/27	67	33.4	24.0	12.9[a]
Hayden Fork	5/28	38	15.4	0.0	5.1[b]
Klondike Narrows	5/27	29	13.3	1.8	1.4[b]

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Little Bear Lower	5/27	0	0.0	0.0	0.0[b]
Little Bear Upper	5/27	0	0.0	0.0	0.0[b]
Monte Cristo	5/27	69	32.9	23.4	10.1
Salt River Summit					
Stillwater Camp	5/28	12	4.8	0.0	0.3[b]
Tony Grove R.S.	5/27	0	0.0	0.0	0.0[b]

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federol Bldg. - Room 4012
Salt Lake City, Utoh 841138

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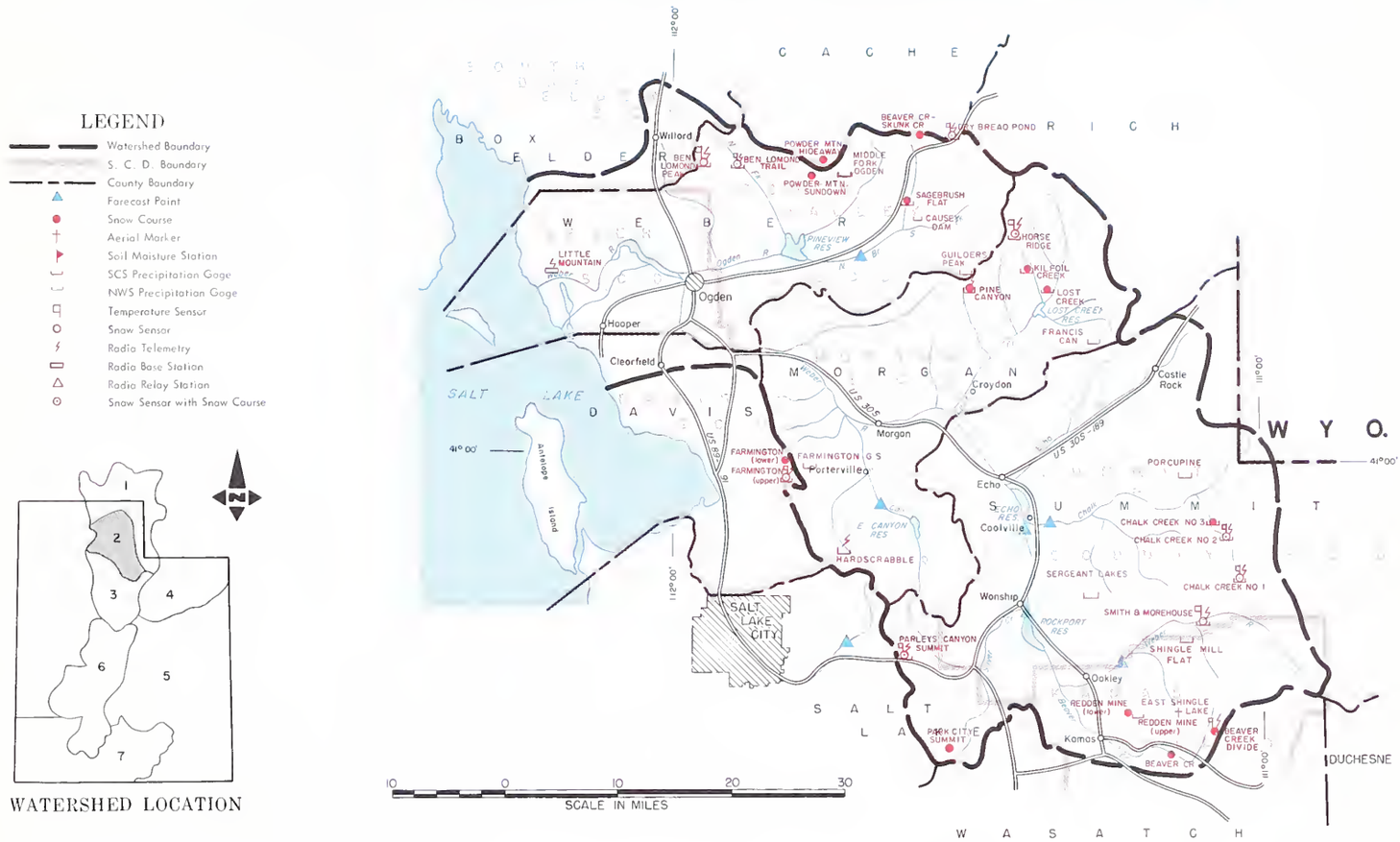
WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER now ranges from 423% of the June 1 average on the Ogden to 518% on the Weber. Snow melt is at least a month later than usual resulting in record amounts still on the watersheds for this late in the year.

PRECIPITATION at mountain stations ranged from 116% of the May average at Sagebrush Flat on the Ogden to 282% at Horse Ridge.

SOIL MOISTURE is well above average for this time of year and has caused many mud slides from steeper areas.

RESERVOIR STORAGE is about average with most reservoirs full and spilling.

STREAMFLOW FORECASTS have again increased as a result of heavy May precipitation and later than usual runoff. Some streams exceeded the May-June forecast during the first month. Forecasts now range from 121% of the May-June average at Oakley to 254% on East Canyon Creek. This will be a new record flow on East Canyon Creek at about 5,000 acre feet higher than 1975 flow for the May-June period. Other forecasts are as follows: Rockport Inflow 126%, Chalk Creek 140%, Echo Inflow 125%, Lost Creek 230%, Hardscrabble 183%, Pineview Inflow 211%, Weber at Gateway 149% and Farmington Creek 163% of the May-June average. Most streams in this area have peaked except possibly Weber at Oakley.

USDA SCS PORTLAND, OR 1981 M7-OL-22027-2

WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	116	121	May-June	122	96
Rockport Reservoir Inflow 1/	123	126	May-June	149	98
Chalk Creek at Coalville	46	140	May-June	50	33
Weber nr Coalville	129	124	May-June	145	104
Lost Creek nr Croydon, UT	29	230	May-June	20	12.6[b]
East Canyon Creek nr Morgan 1/	44	254	May-June	29	17.3
Hardscrabble Crk nr Porterville	27	183	May-June	--	14.7[b]
South Fork Ogden nr Huntsville	88	210	May-June	65	42
Pineview Reservoir Inflow 2/	160	211	May-June	106	76
Echo Reservoir Inflow	166	125	May-June	180	133
Weber at Gateway	355	149	May-June	289	238
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	11.2	163	May-July	--	6.9[b]

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
OGDEN RIVER	6	213	423
WEBER RIVER	10	305	518

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Foot)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
OGDEN	Causey	6.9	7.1	7.0	6.9
	Pineview	110.1	106.4	109.9	110.1
WEBER	East Canyon	48.1	49.7	48.9	48.1
	Echo	73.9	73.4	66.9	72.0
	Lost Creek	20.0	21.3	20.4	20.0
	Rockport	60.9	53.2	46.2	61.8
	Willard Bay	193.3	167.5	175.0	193.3

PEAK FLOWS[e]

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Lost Creek nr Croydon	540-680	220
South Fork Ogden nr Huntsville	930-1230	772
Chalk Creek nr Coalville	620-960	568
Weber nr Oakley	1760-2230	1560

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Beaver Creek R.S.	5/28	0	0.0	0.0	0.0[b]
Beaver Creek-Skunk Creek	5/27	0	0.0	0.0	--
Ben Lomond Peak	5/27	101	53.2	25.2	14.0[b]
Ben Lomond Trail	5/27	0.0	0.0	0.0	0.0[b]
Chalk Creek #1	5/28	69	30.1	23.0	15.3[b]
Chalk Creek #2	5/28	27	11.0	0.0	1.7[b]
Chalk Creek #3	5/28	0	0.0	0.0	0.0[b]
Dry Bread Pond	5/27	40	17.0	7.7	2.6[b]

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Horse Ridge	5/27	42	18.1	10.5	2.4[b]
Lost Creek Reservoir	5/27	0	0.0	0.0	0.0[b]
Monte Cristo	5/27	69	32.9	23.4	10.1
Parleys Canyon Summit	5/31	16	6.7	0.0	0.9[b]
Sagebrush Flat	5/27	0	0.0	0.0	0.0[b]
Smith & Morehouse	5/28	8	3.0	0.0	0.5[b]
Trial Lake	5/28	69	35.5	35.4	18.2

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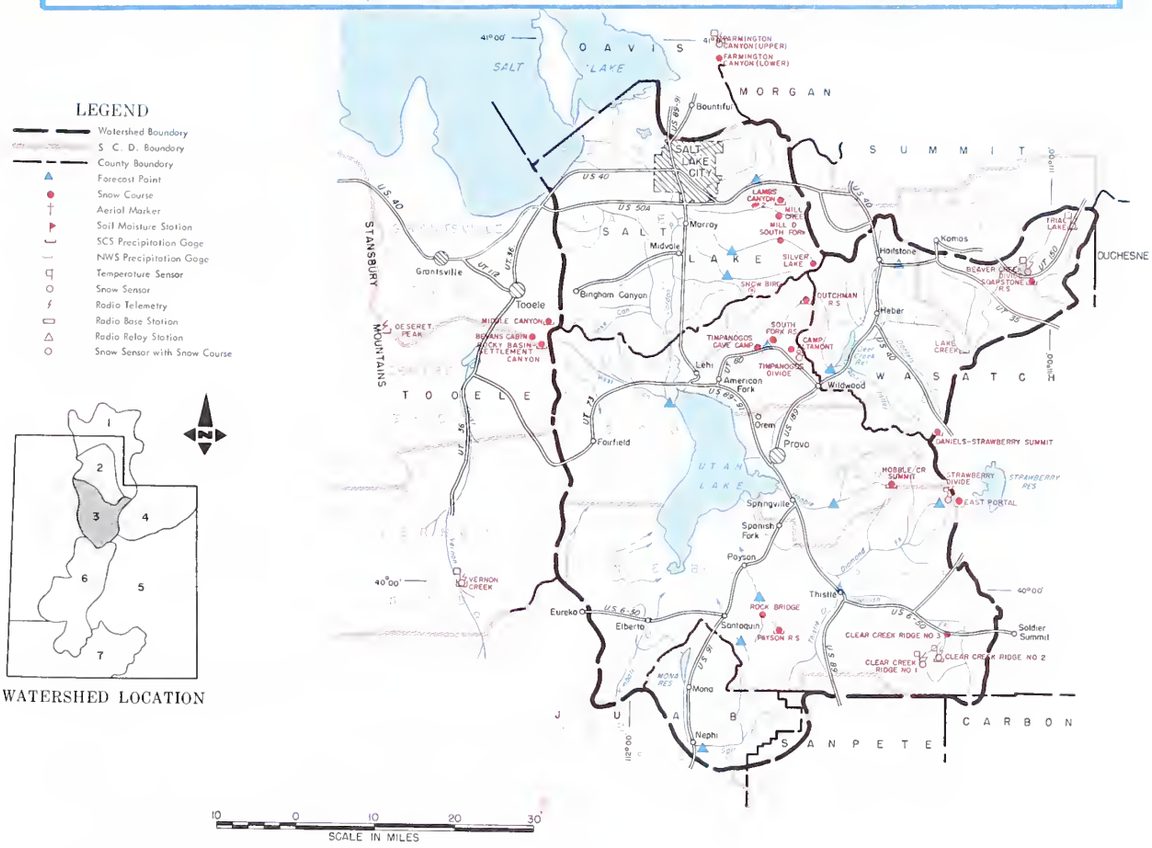
WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER for June 1 is well above average as a result of prolonged storminess and cooler than normal temperatures. Snow courses on watersheds that drain into Utah Lake are 520% of the June 1 average. Jordan River tributaries in Salt Lake County are 375% of average.

PRECIPITATION at mountain stations ranged from 126% of the May average at Timpanogos Divide to 250% at Payson R.S.

SOIL MOISTURE is well above average and not capable of absorbing as much snow melt water as normal.

RESERVOIR STORAGE is at or above capacity in all reservoirs except Deer Creek which has been held down to allow room for high flows and should fill easily with the projected runoff. Utah Lake is 3.8 feet above compromise and projected to peak at 4.5 to 4.8 in mid June. The Great Salt Lake is 4204.3 feet above sea level and 3.4 feet above last year and is now expected to peak at 4204.5 to 4204.8 feet.

STREAMFLOW FORECASTS now range from 143% of the April-July average for Little Cottonwood to 414% for Emigration Creek with most forecasts ranging from 2 to 4 times normal flow. Extremely high flows have been recorded on Parley's, Emigration, City Creek and Mill Creek with Little Cottonwood and Big Cottonwood expected to peak around June 21. State Street, 13th South and North Temple have been sand bagged and used as channels to carry high flows through Salt Lake City.

USDA-SCS-PORTLAND, OR 1981 M7-OL-22027-3

UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	160	172	May-July	153	106
Provo below Deer Creek Dam 1/	170	173	May-July	--	100
American Fork nr American Fork	55	196	May-July	--	28
Hobble Creek nr Springville	40	278	May-July	--	14.4
Strawberry Reservoir Inflow 1/	72	172	May-July	84	42
Spanish Fork at Thistle	87	289	May-July	--	31
Payson Creek nr Payson	15.0	294	May-July	--	5.1[b]
Utah Lake Inflow	450	259	May-July	--	174
JORDON RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	50	143	May-July	--	36
Big Cottonwood nr SLC	56	165	May-July	--	34
Parley's Creek nr SLC	32	265	May-July	--	12.1
Mill Creek nr SLC	10.5	194	May-July	--	5.4
Emigration Creek nr SLC	12.0	414	May-July	--	2.9
City Creek nr SLC	17.3	251	May-July	--	2.9
TOOELE VALLEY					
Settlement Crk nr Tooele	4.9	235	May-July	--	2.1[b]
S. Willow Crk nr Grantsville	4.0	156	May-July	3.6	2.6
Vernon Creek nr Vernon	1.9	413	May-June	0.8	0.5

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PROVO RIVER & UTAH LAKE	9	277	520
JORDON RIVER & SALT LAKE	3	318	375

1 - Observed flow corrected for change in storage and diversions
3 - Provisional flows - subject to correction
a - Partly estimated
b - Average of past record - less than 15 years
+ - 1963-77 15 year average period
e - Maximum daily peak flow
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
SPANISH FORK	Strawberry	270.0	294.9	253.5	--
UTAH LAKE	Utah Lake	883.9	1269.6	1024.1	--
	Settlement Creek	1.2	1.2	1.0	--
	Vernon Creek	0.6	0.6	0.6	--
PROVO	Deer Creek	149.7	138.1	146.2	142.7

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Big Cottonwood nr Salt Lake City		
Little Cottonwood nr Salt Lake City		
Provo Near Hailstone		
Spanish Fork nr Thistle		
American Fork nr American Fork		
Mill Creek nr Salt Lake City		
Parley's Creek nr Salt Lake City		
City Creek nr Salt Lake City		

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Camp Altamont	5/28	2	0.6	0.0	--
Clear Creek #1	5/25	51	23.4	8.4	2.7[b]
Clear Creek #2	5/25	24	11.4	0.0	0.3[b]
Clear Creek #3	5/25	0	0.0	0.0	0.0[b]
Daniels-Strawberry Summit	5/25	24	11.0	0.0	0.2[b]
Deseret Peak	6/6	82	40.8	--	--
Dutchman R.S.	5/28	32	14.9	0.0	0.4[b]
Hobble Creek Summit	5/25	15	6.7	0.0	0.0[b]
Lambs Canyon #2	5/31	14	7.7	0.0	--
Middle Canyon	6/6	1	0.3	0.0	0.4
Mill Creek	5/27	54	24.3	10.1	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Mill D South Fork	5/26	42	19.0	0.0	--
Parley's Canyon Summit	5/31	16	6.7	0.0	0.9[b]
Payson R.S.	5/27	46	22.4	0.0	1.0[b]
Rocky Basin-Settlement Canyon	6/6	79	39.6	14.5[a]	16.2[b]
Silver Lake Brighton	5/26	71	41.0	21.0	11.9[b]
Soapstone R.S.	5/28	0	0.0	0.0	0.3[b]
South Fork R.S.	5/28	0	0.0		--
Timpanogos Divide	5/28	49	24.1	6.2	3.7[b]
Trial Lake	5/28	69	35.5	35.4	18.2
Vernon Creek	5/30	0	0.0	0.0	0.0

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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

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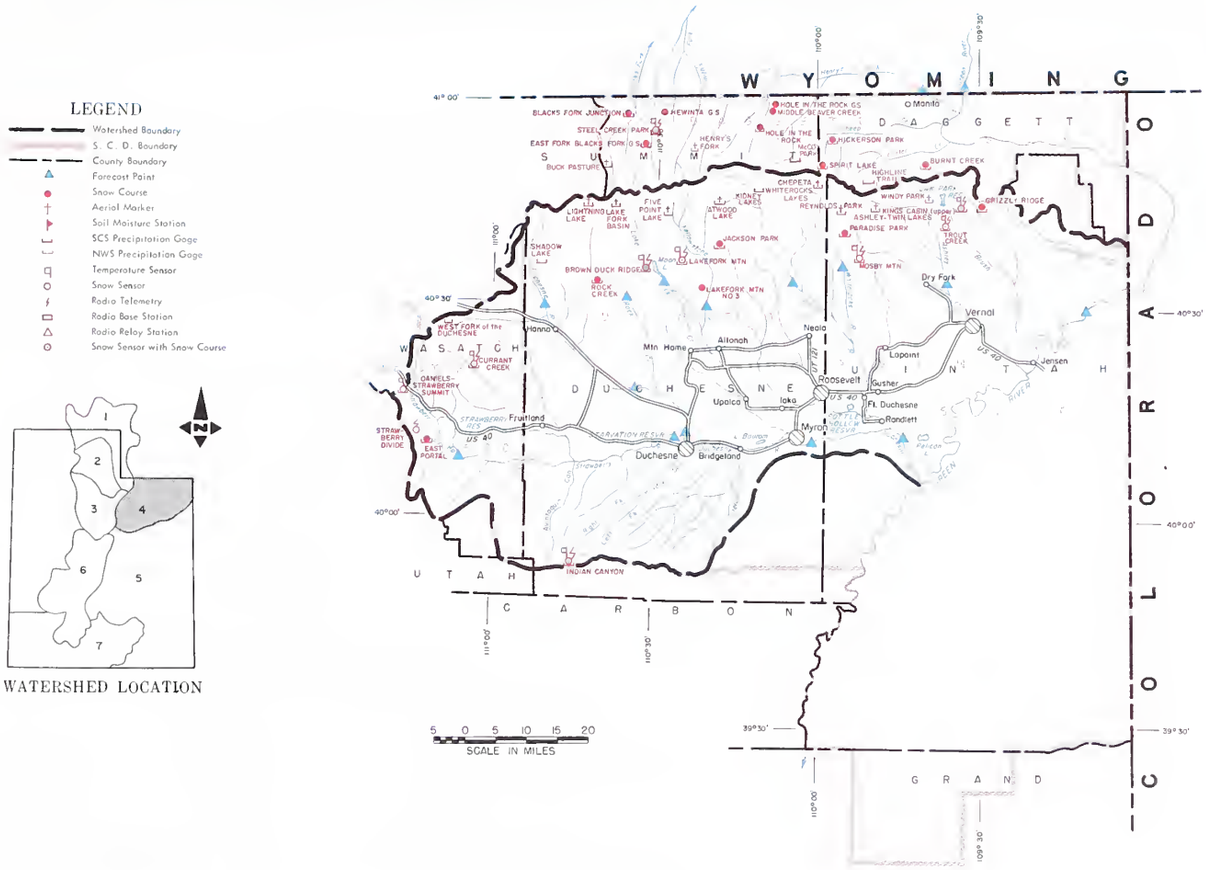
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER now ranges from 306% of the June 1 average on Lakefork-Yellowstone Creeks to 1420% on the Strawberry River drainage. The Duchesne River drainage snow cover is 375%, Uintah-Whiterocks 352%, Ashley Creek 480%, Black's Fork 329% and Sheep Creek 572%.

PRECIPITATION at mountain stations ranged from 102% of the May average at Rock Creek Ranch to 268% at Hickerson Park with many stations receiving near twice the normal precipitation for the month.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is near capacity in the Uintah Basin with Starvation spilling and others releasing to provide some room for peak snow melt runoff.

STREAMFLOW FORECASTS for the May-July period have increased from May 1 forecasts as a result of heavy May precipitation. Forecasts now range from 104% for Flaming Gorge Inflow to 216% for the Duchesne at Randlett. Other forecasts are: Duchesne near Tabiona 146%, Duchesne at Duchesne 143%, Duchesne at Myton 204%, Rock Creek 139%, Currant Creek 157%, Lakefork River 137%, Yellowstone River 152%, Whiterocks 159%, Uintah 172%, Strawberry 186%, West Fork Duchesne 151%, Henry's Fork 176%, Black's Fork 132% and Ashley Creek 153%.

Water supplies are expected to be more than adequate this season. Peak flows are expected to be high and with reservoirs at or near capacity most will be passed on downstream. Provisions should be made to protect property close to stream channels.

USDA-SCS-PORTLAND, OR 1981 M7-OL-22027-4

UINTAH BASIN AND DAGGETT SCD's IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	142	146	May-July	161	98
Duchesne at Duchesne 1/	257	143	May-July	254	180
Strawberry at Duchesne	89	186	May-July	79	48
Rock Creek nr Mtn. Home	126	139	May-July	107	91
Currant Creek nr Fruitland	26	157	May-July	27	16.5
Lakefork below Moon Lake 1/	95	137	May-July	77	69
Yellowstone nr Altonah	96	152	May-July	71	63
Duchesne at Myton 1/	394	204	May-July	262	193
Whiterocks nr Whiterock	92	159	May-July	60	58
Uintah nr Neola	145	172	May-July	85	85
Duchesne at Randlett 1/	482	216	May-July	319	223
West Fork Duchesne at Hanna	36	151	May-July	--	24
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	86	176	May-Sept	36	49
Black's Fork at Millburne	119	132	May-July	94	90
Flaming Gorge Inflow 1/	1175	104	May-July	--	1292
Ashley Creek nr Vernal	76	153	May-July	49	50

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
DUCHESNE RIVER - TOTAL	11	243	375
LAKEFORK-YELLOWSTONE CREEKS	3	229	306
STRAWBERRY RIVER	4	106	1420
UINTAH - WHITEROCKS RIVERS	3	225	352
ASHLEY CREEK	3	298	480
BLACK'S FORK	4	263	329
SHEEP CREEK	2	389	572

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
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a - Partly estimated
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e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
ASHLEY CREEK	Steinaker	33.3	29.0	33.3	--
GREEN RIVER	Flaming Gorge	3749.0	3416.0	2723.0	2566.0
LAKE FORK	Moon Lake	35.8	32.1	16.8	--
STRAWBERRY	Starvation	165.3	165.9	164.4	--
UINTAH	Bottle Hollow	11.3	11.1	10.9	--

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Strawberry at Duchesne	1010-1430	656
Ashley Creek nr Vernal	1000-1500	1030
Rock Creek nr. Mtn. Home	1660-1970	1432

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Brown Duck Ridge	5/28	67	26.9	22.5	11.5b
Currant Creek	5/25	0	0.0	0.0	0.0b
Daniels-Strawberry	5/25	24	11.0	0.0	0.2b
Hewinta G. S.	5/28	31	11.6	1.4	2.4b
Hickerson Park	5/28	38	14.7	0.0	--
Jackson Park	5/28	52	20.4	10.4	--
Kings Cabin Upper	5/28	21	8.4	0.0	1.5b

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Lakefork Mountain	5/28	41	17.9	6.3	3.6b
Mosby Mountain	5/28	51	19.0	5.2	2.8b
Paradise Park	5/28	63	25.4	12.4	6.7b
Rock Creek Ranch	5/28	0	0.0	0.0	1.3b
Spirit Lake	5/28	64	26.5	10.6	7.1b
Steel Creek Park	5/28	69	25.9	19.5	12.0b
Strawberry Divide	NOT MEASURED				
Trout Creek	5/28	36	14.2	0.0	--

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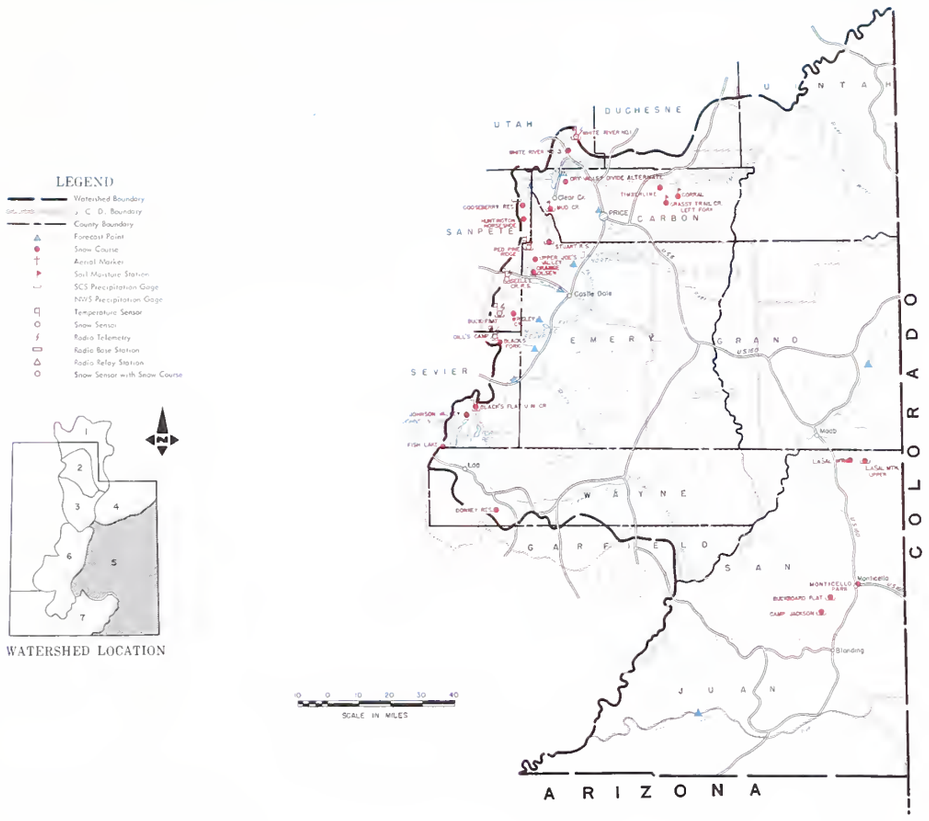
WATER SUPPLY OUTLOOK
CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1983

THE WATER SUPPLY OUTLOOK IS MUCH ABOVE AVERAGE

SNOW COVER is at record levels ranging from 651% of the June 1 average on the San Rafael River drainage to 7900% on the Blue Mountains. The Price River drainage snow courses are 5100%, Fremont River 2100% and Lasal Mountains 2119%. Muddy River snow courses have water content more than double that measured previously on June 1.

PRECIPITATION at mountain stations ranged from 77% of the May average for Camp Jackson to 250% at Mud Creek. Only the Blue Mountains received less than normal precipitation while most other areas received 1 1/2 to 2 1/2 times normal May precipitation.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is near capacity. Reservoirs which are not full have been making releases in order to allow storage for high snow melt flows and are expected to fill easily when the gates are closed.

STREAMFLOW FORECASTS range from 121% of the May-July average for the Green River near Green River to 269% for the Price River near Heiner. Other forecasts are: Gooseberry Creek 176%, Scofield Inflow 208%, Huntington Creek 197%, Cottonwood Creek 195%, Ferron Creek 244%, Muddy Creek 222%, Colorado near Cisco 156%, Mill Creek near Moab 228%, San Juan near Bluff 134% and Seven Mile Creek near Fish Lake 146%.

Flood damage has been reported and continued precautions should be taken to prevent property damage by high flows from the heavy, late snowpack.

USDA-SCS-PORTLAND, OR 1981 M7-OL-22027-5

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	16.5	176	May-July	--	9.4
Scofield Reservoir Inflow	65	208	May-July	--	31
Price nr Heiner 1/	140	269	May-July	--	52
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	83	197	May-July	--	45[b]
Cottonwood Crk nr Orangeville	81	195	May-July	63	42[b]
Ferron Creek nr Ferron	78	244	May-July	47	32
MUDDY CREEK					
Muddy Creek nr Emery	34	222	May-July	25	15.5
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	3700	156	May-July	--	2716
Green at Green River, UT	3044	121	May-July	--	2974
Mill Creek nr Moab	9.8	228	May-July	3.4	4.3[b]
Navajo Reservoir Inflow	677	139	May-July	--	608
San Juan nr Bluff, UT	950	134	May-July	--	865
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	8.3	146	May-July	6.9	5.7

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
PRICE RIVER	2	--	5100
SAN RAFAEL RIVER	4	346	651
FREMONT RIVER	3	--	2100
LASAL MOUNTAINS	2	--	2119
BLUE MOUNTAINS	2	--	7900
MUDDY RIVER	--	--	--

1 - Observed flow corrected for change in storage and diversions
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b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Foot)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
PRICE RIVER	Scofield	65.8	52.4	66.3	--
SAN RAFAEL	Huntington North	3.9	3.9[e]	3.3	--
	Joe's Valley	54.6	45.4	39.3	--
	Mill Site	16.7	17.0[e]	14.7	--
SAN JUAN	Navajo	1696.0	1444.0	1397.9	1400.0
	Kens Lake	2.3	2.2	1.7	---

PEAK FLOWS [e]

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Ferron Creek near Ferron	880-1030	422
Muddy Creek near Emery	320-450	154
Huntington Cr. near Huntington		

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Buck Flat	5/25	57	27.7	9.4	3.1[b]
Buckboard Flat	5/25	21	8.4	0.0	0.2[b]
Camp Jackson	5/25	18	7.4	0.0	0.0[b]
Dills Camp	5/25	31	13.0	0.0	0.0
Dry Valley Divide Alternate	5/25	10	4.1	0.0	--
Huntington-Horseshoe	5/25	109	50.1	19.0	--
Lasal Mtn. Upper	5/26	57	26.1	0.0	1.6[b]
Mammoth-Cottonwood R.S.	5/25	78	37.1	10.4	4.4[b]

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Monticello City Park	5/26	0	0.0	0.0	--
Mud Creek	5/25	18	8.1	0.0	0.0
Red Pine Ridge	5/25	47	22.7	3.8	1.6[b]
Seeley Creek	5/25	76	32.9	10.9	8.1[b]
White River #1	5/25	27	12.3	0.0	0.4[b]
White River #3	5/25	0	0.0	0.0	--

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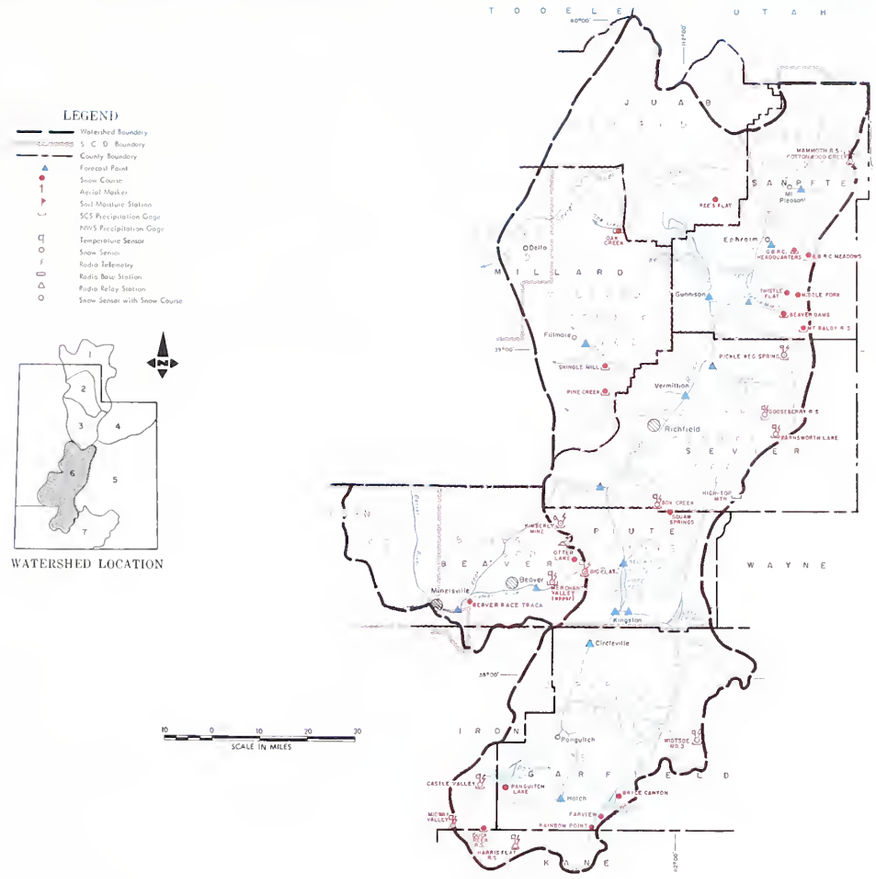
WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JUNE 1, 1983

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER is at record levels for June 1 and ranged from 576% of average on the Lower Sevier to 2300% on the East Fork of the Upper Sevier. The Beaver River is 600% and South Fork Sevier 971% of the June 1 average.

PRECIPITATION at mountain stations ranged from 153% of the May average at Duck Creek R.S. to 309% of average at G.B.R.C. Meadows with most stations receiving 2 to 3 times normal for the month.

SOIL MOISTURE is well above average and the incidence of mud flows is much greater than normal.

RESERVOIR STORAGE is over capacity with all reservoirs reported full and spilling.

STREAMFLOW FORECASTS are at record levels at many stations ranging from 244% of the May-July average for Salt Creek near Nephi to 686% of the March-June average for Vermillion Dam to Gunnison. Most forecasts are for three to six times average flow and reports of flooding have been widespread. Record snowpack, high soil moisture levels, continued heavy precipitation and full reservoirs should combine to keep streamflows much higher than average throughout much of the summer.

USDA SCS-PORTLAND, OR 1981 M7-OL-22027-6

SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average †
SEVIER RIVER					
Sevier at Hatch	110	314	May-July	--	35
Sevier nr Circleville	90	391	May-July	--	23
Sevier nr Kingston	66	379	May-July	--	16.9
Antimony Crk nr Antimony	23	404	May-July	--	5.7[b]
East Fork Sevier nr Kingston1/	55	529	May-July	--	10.5
Sevier below Piute Dam	120	444	May-July	--	27
Clear Crk nr Sevier (abv Div)	55	359	May-July	--	15.3
Sigurd to Gunnison	100	476	May-July	--	22
Kingston to Vermillion Dam	250	446	May-June	--	56
Vermillion Dam to Gunnison	240	686	May-June	--	35
Salina Creek at Salina	45	433	May-June	--	10.4
Sevier nr Gunnison	235	618	May-July	--	38
Chalk Creek nr Fillmore	55	422	May-July	--	13.1
Chicken Creek nr Levan	8.8	354	May-July	4.4	2.5
Oak Cr. nr Oak City	2.9	293	May-July	1.3	1.0[b]
Ephraim Creek nr Ephraim	55	417	May-July	--	13.2[b]
Pleasant Crk nr Mt. Pleasant	33	418	May-July	--	7.9[b]
Salt Creek nr. Nephi	24	244	May-July	--	10.0
Beaver nr Beaver	56	309	May-July	29	18.0
North Creek (Combined)	35	288	May-July	--	12.0[b]
Minersville Inflow	32	590	May-June	--	5.4

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
UPPER SEVIER RIVER			
East Fork Sevier	3	1500	2300
South Fork Sevier	6	971	971
LOWER SEVIER	6	328	576
BEAVER RIVER	3	243	600

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average †
SEVIER RIVER	Gunnison	18.2	18.2	18.2	18.2
	Otter Creek	52.5	52.7	52.7	52.5
	Piute	71.8	71.8	69.3	71.8
	Sevier Bridge	236.0	236.1	195.6	--
	Panguitch Lake	22.3	23.0[e]	22.3	--
BEAVER RIVER	Minersville (Rky Fd)	23.3	23.3	16.3	23.3

PEAK FLOWS [e]

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Sevier River at Hatch	600-860	211
Beaver River nr Beaver		
Sevier River nr Kingston		
Clear Creek nr Sevier		
Salina Creek nr Salina		

SNOW

ORAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Big Flat	5/26	87	35.7	21.8	11.7
Bryce Canyon	5/26	0	0.0	0.0	--
Castle Valley	5/26	28	13.5	0.0	0.0[b]
Duck Creek	5/26	24	11.3	0.0	0.0[b]
Farnsworth Lake	5/25	77	33.8	11.5	--
Gooseberry R.S.	5/25	24	10.8	0.0	--
Harris Flat	5/26	0	0.0	0.0	0.0
Kimberly Mine	5/26	52	27.4	0.0	2.2[b]

SNOW

ORAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Long Valley Junction	5/26	0	0.0	0.0	--
Merchants Valley Upper	5/26	17	6.7	0.0	0.0[b]
Midway Valley	5/26	86	44.9	10.0	7.8[b]
Oak Creek	5/26	34	16.1	0.0	--
Otter Lake	5/26	60	24.8	9.3	5.3[b]
Pickle Keg Springs	5/25	54	25.1	0.4	--
Pine Creek	5/26	67	33.9	0.0	1.3[b]
Widtsoe-Escalante #3	5/26	28	11.5	0.0	--

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES

JUNE 1, 1983

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER now ranges from 481% of the June 1 average on Parowan Creek to 786% on Coal Creek. The Virgin River drainage is at 653% of average.

PRECIPITATION at mountain stations ranged from 117% of the May average at Widtsoe-Escalante #3 to 254% at Yankee Reservoir.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is near capacity.

STREAMFLOW FORECASTS range from 131% of the May-July average for Lake Powell Inflow to 592% of the May-June average for the Santa Clara River near Pine Valley. Coal Creek is forecast 352% and the Virgin River near Hurricane is forecast 503% of the May-July average.

USDA SCS PORTLAND, OR 1981 M7-OL-22027-7

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST * Thousand Acre Feet	THIS YEAR FORECAST * Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year 3	PAST RECORD THOUSAND ACRE FEET Average +
VIRGIN RIVER					
Virgin nr Hurricane	156	503	May-June	29	30
Santa Clara nr Pine Valley	16.0	592	May-June	--	3.3
COAL CREEK					
Coal Creek nr Cedar City	50	352	May-July	17.8	14.2
UPPER COLORADO					
Lake Powell Inflow	7975	131	May-July	--	6952

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF Last Year	THIS YEAR AS A PERCENT OF Average
COAL CREEK	2	770	786
VIRGIN RIVER	2	--	653
PAROWAN CREEK	2	472	481
ENTERPRISE - NEW HARMONY	--	--	--
ESCALANTE RIVER	--	--	--

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Foot)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE This Year	USEABLE STORAGE Last Year	USEABLE STORAGE Average†
COLORADO	Lake Powell	25002.0	24216.0	21127.0	19600.0
	Blue Mesa	829.5	562.0	394.9	450.0

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET) Forecast Range	PEAK FLOW (SECOND FEET) Average †
Coal Creek nr Cedar City		
Virgin nr Virgin		

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Birch Crossing	5/26	0	0.0	0.0	--
Brian Head	5/26	70	32.3	10.3	8.1b
Harris Flat	5/26	0	0.0	0.0	0.0
Kolob-Crystal	5/26	68	34.5	0.0	8.2b
Little Grassy	5/26	0	0.0	0.0	0.0b
Long Flat	5/26	0	0.0	0.0	0.0b

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR Date of Survey	THIS YEAR Snow Depth (Inches)	THIS YEAR Water Content (Inches)	PAST RECORD Water Content (Inches) Last Year	PAST RECORD Water Content (Inches) Average †
Long Valley Junction	5/26	0	0.0	0.0	--
SUSC Ranch	5/26	0	0.0	0.0	--
Tall Poles	5/26	32	16.3	0.0	2.0b
Webster Flat	5/26	50	32.1	0.0	2.0
Yankee Reservoir	5/26	17	7.1	0.0	0.0b

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PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	SNOW: THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	SNOW: PAST RECORD Water Content (inches) Last Year	Average +	PRECIPITATION: CURRENT INFORMATION Date of Reading	Month's Precipitation	Average +	FROM APPROX. OCT 1 TO DATE This Year	Average +	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	5/28	0	0.0	0.0	0.0[b]	5/28	3.50	2.32[b]	16.31	13.99[b]	117
CCC Camp	NOT MEASURED										
Hayden Fork	5/28	38	15.4	0.0	5.1[b]	5/28	5.02	3.02[b]	31.04	27.16	114
Monte Cristo R.S.	5/27	69	32.9	23.4	10.1	5/27	7.45	2.83	36.90	34.00	109
Salt River Summit	5/31	0	0.0	0.0	--	5/31	4.06	1.47	23.66	21.23	111
Stillwater Camp	5/28	12	4.8	0.0	0.3[b]	5/28	4.06	2.22	20.52	17.32	118
Lily Lake	5/28	34	13.4	2.4	--	5/28	5.25	--	24.52	--	--
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	5/27	41	16.1	14.0	--	5/27	5.91	--	24.97	--	--
Cub River R.S.	5/27	0	0.0	0.0	--						
Emigrant Summit	NOT MEASURED										
Franklin Basin	5/27	67	33.4	24.0	12.9[a]	6/1	6.80[a]	--	43.00[a]	--	--
Garden City Summit	5/27	35	14.7	9.6	3.5	5/27	5.39	2.14	27.58	24.47	113
Klondike Narrows	5/27	29	13.3	1.8	1.4[b]	5/27	6.13	2.75	31.64	29.20[b]	108
Little Bear (lower)	5/27	0	0.0	0.0	0.0[b]						
Little Bear (upper)	5/27	0	0.0	0.0	0.0[b]	5/27	6.31	--	37.12	--	--
Slug Creek Divide	NOT MEASURED				--						
Steep Hollow #1	5/27	103	48.4	43.6	25.6						
Steep Hollow #2	5/27	59	27.7	17.8	8.0[b]						
Tony Grove Lake	5/27	86	40.8	35.3	23.6[b]	5/27	9.03[a]	--	45.67[a]	--	--
Tony Grove R.S.	5/27	0	0.0	0.0	0.0[b]	5/27	5.20	1.56[b]	25.10	29.97[b]	84
Willow Flat	5/27	0	0.0	0.0	--	5/27	7.85	2.85[b]	38.77	30.36	128
OGDEN RIVER											
Beaver Creek-Skunk Creek	5/27	0	0.0	0.0	0.0[b]						
Ben Lomond Peak	5/27	101	53.2	25.2	14.0[a]						
Ben Lomond Trail	5/27	0	0.0	0.0	0.0[b]	5/27	6.90	3.05[b]	57.18	37.17[b]	154
Causey Dam	5/27	0	0.0	0.0	0.0[b]	5/27	3.72	1.86[b]	19.33	18.50	104
Dry Bread Pond	5/27	40	17.0	7.7	2.6[b]	6/1	4.60[a]	2.62[b]	26.60[a]	27.90	95
Sagebrush Flat	5/27	0	0.0	0.0	0.0[b]	5/27	2.03	1.75[b]	15.69[a]	18.58	84
WEBER RIVER											
East Shingle Lake (A)	6/10	75	37.5	25.5	--						
Beaver Creek R.S.	5/28	0	0.0	0.0	0.0[b]						
Chalk Creek #1	5/28	69	30.1	23.0	15.3[b]	5/28	6.50[a]		36.35[a]		
Chalk Creek #2	5/28	27	11.0	0.0	1.7[b]	5/28	4.81[a]	2.25	25.74[a]	19.64	131
Chalk Creek #3	5/28	0	0.0	0.0	0.0[b]	5/28	4.66	2.17[b]	22.14	17.76[b]	125
Farmington Canyon (lower)	5/27	64	33.0	2.6	0.0[b]	5/27	6.50	4.32	46.69[a]	38.24	122
Farmington Canyon (upper)	5/27	102	51.8	17.0	12.4[b]	5/27	9.36[a]	6.24[a]	54.79[a]	46.13[a]	119
Farmington G.S.	5/27	68	34.7[a]	0.0	--	5/27	4.60	5.20[b]	42.83[a]	38.44	111
Hardscrabble	5/27	28	12.6	0.0	--						
Horse Ridge	5/27	42	18.1	10.5	2.4[b]	5/27	7.39	2.62[b]	35.66	31.00	115
Kilfoil Creek	5/27	4	1.6	0.0	--						
Lost Creek Reservoir	5/27	0	0.0	0.0	0.0[b]	5/27	4.14	--	15.57	--	--
Park City Summit	6/2	70	32.2[e]	--	--						
Parley's Canyon Summit	5/31	16	6.7	0.0	0.9[b]	5/31	5.89	2.80	35.16	30.38	116
Pine Canyon	5/27	30	12.6	0.0	--						
Redden Mine (lower)	5/28	43	18.2	5.8	--	5/28	6.32	--	30.46	--	--
Smith & Morehouse	5/28	8	3.0	0.0	0.5[b]	5/28	6.03	2.46	26.51	24.47	108
Sargeant Lake (A)	6/10	12	6.0	--	--						
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	5/28	2	0.6	0.0	--	5/28	4.65[a]	--	28.63[a]	--	--
Camp Altamont	5/28	6	2.4	--	--						
Clear Creek Ridge #1	5/25	51	23.4	8.4	2.7[b]	5/25					
Clear Creek Ridge #2	5/25	24	11.4	0.0	0.3[b]	5/25	4.40	2.01	26.92	21.38	126
Clear Creek Ridge #3	5/25	0	0.0	0.0	0.0[b]						
Dutchman R.S.	5/28	32	14.9	0.0	0.4[b]	5/28	4.25	2.64[b]	38.05	27.63	138
Hobble Creek Summit	5/25	15	6.7	0.0	0.0[b]	5/25	5.02	2.15	28.41	22.54	126
Payson R.S.	5/27	46	22.4	0.0	1.0[b]	5/27	4.96	1.98	29.00	23.51	123
Soapstone R.S.	5/28	0	0.0	0.0	0.3[b]	5/28	3.37	2.05	24.12	21.84	110
South Fork R.S.	5/28	0	0.0	--	--						
Timpanogos Cave Camp	5/28	0	0.0	--	--						
Timpanogos Divide	5/28	49	24.1	6.2	3.7[b]	5/28	3.50	2.78	41.25	32.17	128
Trial Lake	5/28	69	35.5	35.4	18.2	5/28	4.57	2.72	37.13	31.45	118

USDA-SCS-PORTLAND, OR. 1977 M7-0-22027 D

+ 1958-1972 period

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches) CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches) Last Year	Water Content (inches) Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
JORDAN RIVER & GREAT SALT LAKE											
Bevin's Cabin	6/6	0	0.0	--	--						
Lamb's Canyon #2	5/31	14	7.7	0.0	--	5/31	5.81	--	28.22	--	--
Middle Canyon	6/6	1	0.3	0.0	--	6/6	5.84	2.86[b]	--	23.06	--
Mill Creek	5/27	54	24.3	10.1	--						
Mill D South Fork	5/26	42	19.0	0.0	--						
Rocky Basin-Settlement	6/6	79	39.6	14.5[a]	--	6/6	7.89		49.86		
Silver Lake (Brighton)	5/26	71	41.0	21.0	11.9[b]						
Snow Bird (Gad Valley)	NOT MEASURED										
Vernon Creek	5/30	0	0.0	0.0	0.0	5/30	4.47[a]	2.05[b]	33.14[a]	19.90	166
Deseret Peak	6/6	82	40.8	--	--						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	6/10	54	27.0	12.0	--						
Black's Fork G.S.-East Fork	5/28	28	11.2	0.0	1.6[b]	5/28	3.89	--	20.43	--	--
Black's Fork Junction	5/28	18	6.3	0.0	0.7[b]	5/28	3.63	--		--	--
Buck Pasture (A)	6/10	30	15.0	11.5	--						
Burnt Creek	6/1	0	0.0	0.0	0.4[b]	6/1	4.90		18.30		
Grizzly Ridge	6/1	0	0.0	0.0	--	6/1	4.60	2.90[b]	26.00	19.50	133
Hewinta G.S.	5/28	31	11.6	1.4	2.4[b]	5/28	3.95	--	22.19	--	--
Hickerson Park	5/28	38	14.7	0.0	--	5/28	6.88	2.57[b]	25.53	15.54	164
King's Cabin (upper)	5/28	21	8.4	0.0	1.5[b]	5/28	3.88	3.01	21.51	17.59	122
Reynolds Park (A)	6/10	63	31.5	6.0	--						
Spirit Lake	5/28	64	26.5	10.6	7.1[b]	5/28	7.50	3.68[b]	29.98	22.38[b]	134
Steel Creek Park	5/28	69	25.9	19.5	12.0[b]	5/28	5.07	--	21.70	--	--
Trout Creek	5/28	36	14.2	0.0	--	5/28	4.84	--	24.75	--	--
Henrys Fork (A)	6/10	33	16.5	1.5	3.6[b]						
DUCHESNE RIVER											
Atwood Lake (A)	6/10	39	19.5	11.5	0.0[b]						
Brown Duck Ridge	5/28	67	26.9	22.5	11.5[b]	5/28	3.25	--	26.92	--	--
Chepeta	5/28	60	24.2	11.6	--	5/28	6.62[a]		28.20[a]		
Currant Creek	5/25	0	0.0	0.0	0.0[b]	5/25	2.09	1.58[b]	20.24	17.78	114
Daniels-Strawberry Summit	5/25	24	11.0	0.0	0.2[b]	5/25	4.14	1.90[b]	28.53	22.99	124
East Portal	6/1	0	0.0	0.0	0.0[b]	6/1	3.89		26.94		
Five Points Lake (A)	6/10	45	22.5	13.5	--						
Indian Canyon	5/25	40	17.4	0.0	--	5/25	3.18	1.71[b]	24.81	17.37[b]	143
Jackson Park	5/28	52	20.4	10.4	--	5/28	4.48		26.41		
Lakefork Basin (A)	6/10	53	26.5	25.5	--						
Lakefork Mountain #1	5/28	41	17.9	6.3	3.6[b]	5/28	3.49	2.60	22.73	18.30	124
Lakefork Mountain #3	5/28	0	0.0	0.0	0.0[b]						
Lightning Lake (A)	6/10	72	36.0	34.5	--						
Mosby Mountain	5/28	51	19.0	5.2	2.8[b]	5/28	5.33	2.62[b]	26.91	17.80	151
Paradise Park	5/28	63	25.4	12.4	6.7[b]	5/28	5.30	2.50		20.56	
Rock Creek Ranch	5/28	0	0.0	0.0	1.3[b]	5/28	1.87	1.83	19.04	15.35	124
Strawberry Divide	NOT MEASURED					6/1	3.80[a]		31.60[a]		
Chepeta-Whiterocks (A)	6/10	59	29.5	--	--						
PRICE RIVER											
Dry Valley Divide Alternate	5/25	10	4.1	0.0	--						
Mud Creek	5/25	18	8.1	0.0	0.0[b]	5/25	4.88[a]	1.95	--	19.16	
White River #1	5/25	27	12.3	0.0	0.4[b]	5/25	3.68	1.71[b]	23.03	17.77	130
White River #3	5/25	0	0.0	0.0	--						
SAN RAFAEL RIVER											
Buck Flat	5/25	57	27.7	9.4	3.1[b]	5/25	4.69	2.52	31.72	22.97	138
Huntington-Horseshoe	5/25	109	50.1	19.0	--						
Orange Olsen	5/25	0	0.0	0.0		5/25	1.45	0.97[b]	14.53	9.50	153
Red Pine Ridge	5/25	47	22.7	3.8	1.6[b]	5/25	2.70	2.22	29.46[a]	25.61	115
Seeley Creek R.S.	5/25	76	32.9	10.9	8.1[b]	5/25	4.31[a]		25.01[a]		
Stuart R.S.	5/25	0	0.0	0.0	0.0[b]	5/25	2.50	1.65	18.02	15.42	117
Upper Joe's Valley	5/25	13	4.7	0.0	--						
Wrigley Creek	5/25	20	8.7	0.0	--						
MUDDY RIVER											
Black's Fork	5/25	36	16.3	0.0	0.0						
Dill's Camp	5/25	31	13.0	0.0	0.0	5/25	4.38		27.72		

USDA-SCS-PORTLAND, OR. 1977 M7-0-22027 D

† 1958-1972 period.

SNOW

PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average †	CURRENT INFORMATION: Date of Reading	CURRENT INFORMATION: Month's Precipitation	CURRENT INFORMATION: Average †	FROM APPROX. OCT 1 TO DATE: This Year	FROM APPROX. OCT 1 TO DATE: Average †	FROM APPROX. OCT 1 TO DATE: Percent of Average
FREMONT RIVER											
Black's Flat-U.M. Creek	5/25	22	8.4	0.0	0.4	5/25	3.43	1.81	19.55	16.28	120
Fish Lake	5/25	0	0.0	0.0	0.0[b]	5/25	2.91	1.39	16.44	12.39	133
Johnson Valley	5/25	0	0.0	0.0	0.0[b]						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	5/25	21	8.4	0.0	--	5/25	1.65	1.94	29.00	22.83	127
Camp Jackson	5/25	18	7.4	0.0	0.0[b]	5/25	1.20	1.56	30.75	20.76	148
LaSal Mountain (lower)	5/26	18	7.8	0.0	--						
LaSal Mountain (upper)	5/26	57	26.1	0.0	--	5/26	3.65	2.21	33.90	19.38	176
Monticello City Park	5/26	0	0.0	0.0	--						
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	5/25	44	18.3	2.3	1.0[b]	5/25	4.84	1.88	29.07	18.29	159
Bryce Canyon	5/26	0	0.0	0.0	--						
Castle Valley	5/26	28	13.5	0.0	0.0[b]	5/26	3.17	1.62	30.24	18.75	161
Duck Creek R.S.	5/26	24	11.3	0.0	0.0[b]	5/26	2.93	1.91	39.18	21.55	182
Harris Flat	5/26	0	0.0	0.0	0.0	6/1	0.20[a]	--	20.00[a]	--	--
Kimberly Mine	5/26	52	27.4	0.0	2.2[b]	5/26	5.13	2.15	36.71	24.76	148
Midway Valley	5/26	86	44.9	10.0	7.8[b]	5/26	4.00[a]	--	53.10[a]	--	--
Panguitch Lake	5/26	0	0.0	0.0	0.0[b]	5/26	2.01	1.04	18.71	10.43	179
Squaw Springs	5/25	12	4.7	0.0	--						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	5/25	21	9.2	0.0	0.0[b]	5/25	6.42	2.10[b]	30.91	18.44	168
Farnsworth Lake	5/25	77	33.8	11.5	--	5/25	7.10	--	35.83	--	--
G.B.R.C. Headquarters	5/25	62	27.1	3.0	3.2[b]	5/25	6.19[a]	2.38	35.59	24.93	143
G.B.R.C. Majors						NOT MEASURED		1.51[b]		12.17	
G.B.R.C. Meadows	5/25	103	47.5	24.7	13.3[b]	5/25	8.03	2.60	40.77	29.80	137
G.B.R.C. Oaks						NOT MEASURED		1.78		16.66	
Gooseberry R.S.	5/25	24	10.8	0.0	--	5/25	5.58	1.83[b]	26.42	17.95[b]	148
Mammoth-Cottonwood Creek	5/25	76	37.1	10.4	4.4[b]	5/25	4.60[a]	--	29.15[a]	--	--
Mt. Baldy R.S.	5/25	98	45.0	22.8	12.5[b]	5/25	8.19	2.67[b]	37.42	23.51[b]	159
Oak Creek	5/26	34	16.1	0.0	--	5/26	5.01	1.83[b]	30.62	21.62	142
Pickle Keg Springs	5/25	54	25.1	0.4	--	6/1	5.40[a]		37.44[a]		
Pine Creek	5/26	67	33.9	0.0	1.3[b]	5/26	8.01	3.00	44.10	30.70	144
Ree's Flat	5/27	8	3.6	0.0	--			--		--	
Shingle Mill	5/25	0	0.0	0.0	--	5/25	5.74	2.14[b]	31.80	21.69	147
Gooseberry Reservoir						5/25	6.51	2.33	36.14	24.04	150
BEAVER RIVER											
Beaver Canyon Power House	NOT MEASURED										
Beaver Race Track	5/26	0	0.0	0.0	--						
Big Flat	5/26	87	35.7	21.8	11.7	5/26	4.58	2.71	33.20	21.71	153
Merchant's Valley (upper)	5/26	38	17.5	0.0	0.0[b]	5/26	4.15	1.88	31.68	19.09	166
Otter Lake	5/26	60	24.8	9.3	5.3[b]						
PAROWAN CREEK											
Birch Crossing	5/26	0	0.0	0.0	--						
Brian Head	5/26	70	32.3	10.3	8.1[b]						
Tall Poles	5/26	32	16.3	0.0	2.0[b]	5/26	3.50	1.42[b]	28.05	19.79[b]	142
Yankee Reservoir	5/26	17	7.1	0.0	0.0[b]	5/26	3.64	1.43	23.90	16.57	144
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	5/26	0	0.0	0.0	0.0[b]	5/26	1.42	0.88[b]	29.50	15.61[b]	189
Long Flat	5/26	0	0.0	0.0	0.0[b]	5/26	1.71	1.23[b]	25.35[a]	14.24[b]	178
COAL CREEK											
Cedar City Golf Course	5/26	0	0.0	0.0	--						
SUSC Ranch	5/26	0	0.0	0.0	--						

USDA-SCS-PORTLAND, OR. 1977 M7-0-22027 D

† 1958-1972 period.

SNOW

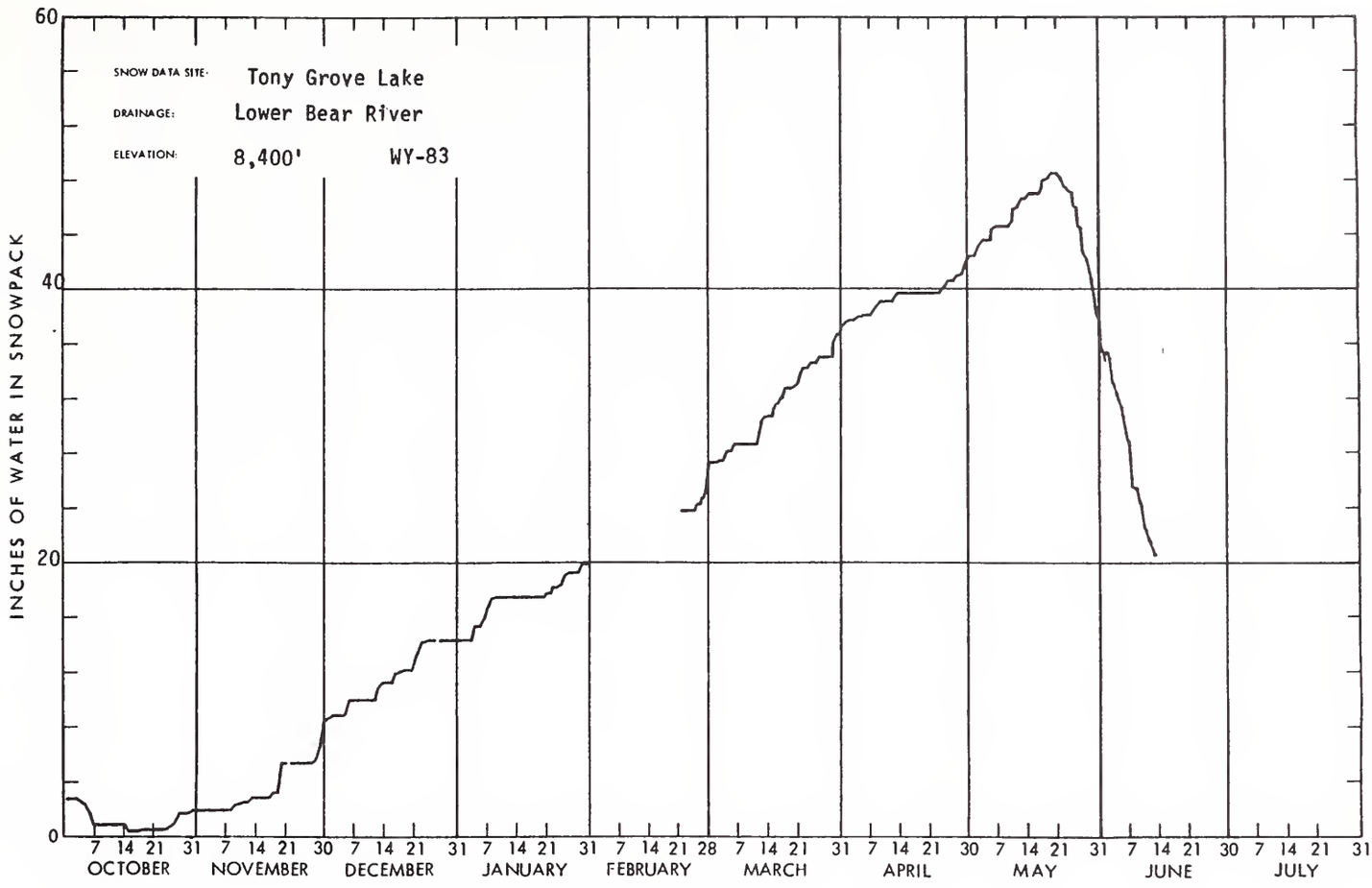
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (inches)	THIS YEAR: Water Content (inches)	PAST RECORD: Water Content (inches): Last Year	PAST RECORD: Water Content (inches): Average †
ESCALANTE RIVER					
Widtsoe-Escalante #3	5/26	28	11.5	0.0	0.5[b]
VIRGIN RIVER					
Kolob-Crystal	5/26	68	34.5	0.0	8.2[b]
Long Valley Junction	5/26	0	0.0	0.0	--
Webster Flat	5/26	50	32.1	0.0	2.0

PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	CURRENT INFORMATION: Date of Reading	CURRENT INFORMATION: Month's Precipitation	CURRENT INFORMATION: Average †	FROM APPROX. OCT 1 TO DATE: This Year	FROM APPROX. OCT 1 TO DATE: Average †	FROM APPROX. OCT 1 TO DATE: Percent of Average
ESCALANTE RIVER						
Widtsoe-Escalante #3	5/26	2.12	1.81	22.34	17.02	131
VIRGIN RIVER						
Kolob-Crystal	5/26		--		--	
Long Valley Junction						
Webster Flat	5/26	3.06	1.90[b]	45.04	24.98[b]	180

a - Partly Estimated
b - Average of past record in average period - less than 15 years
+ - 1963-77 15 year average period
(A) - Aerial Marker Reading

WSFB-X13A



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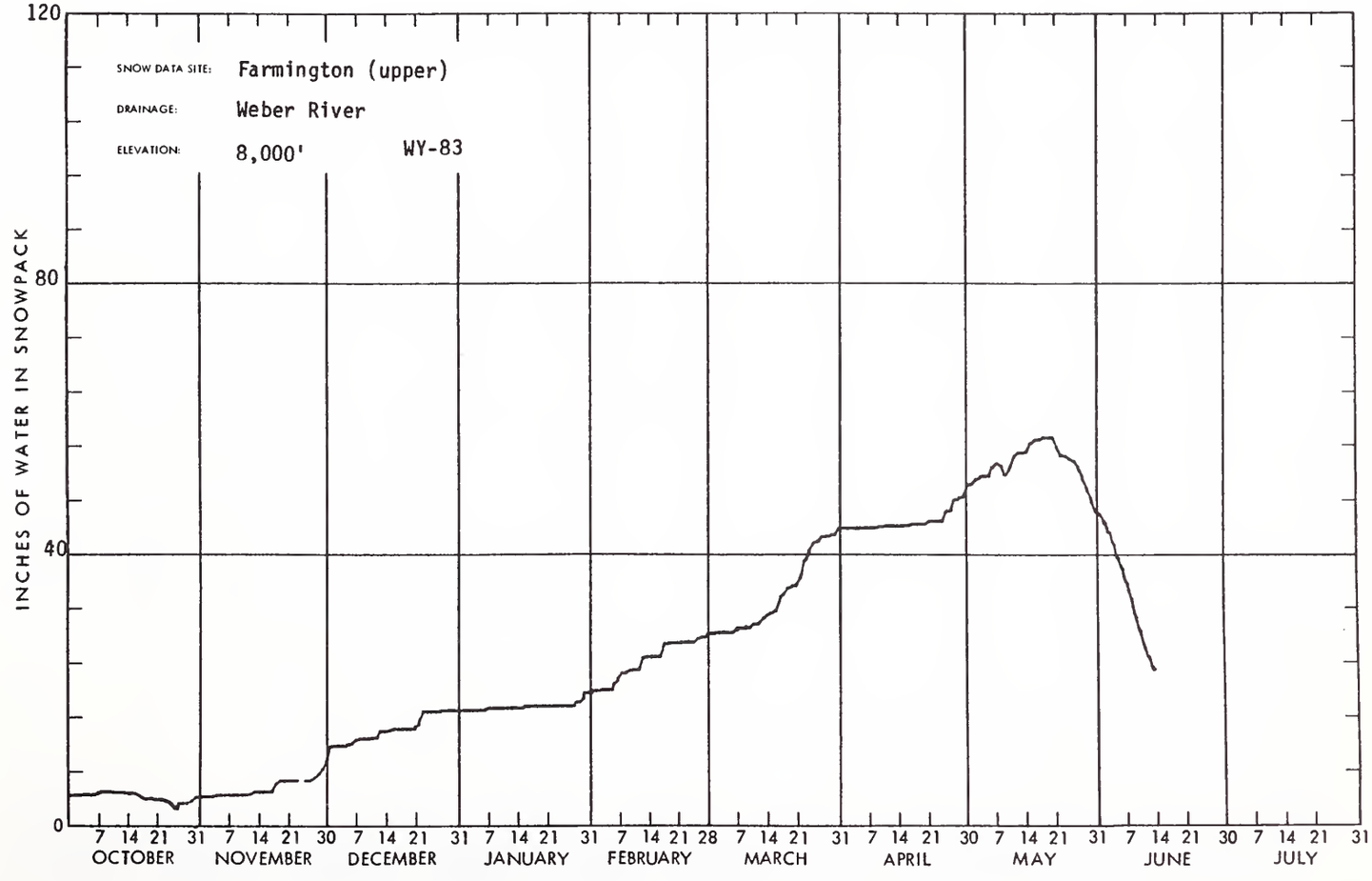

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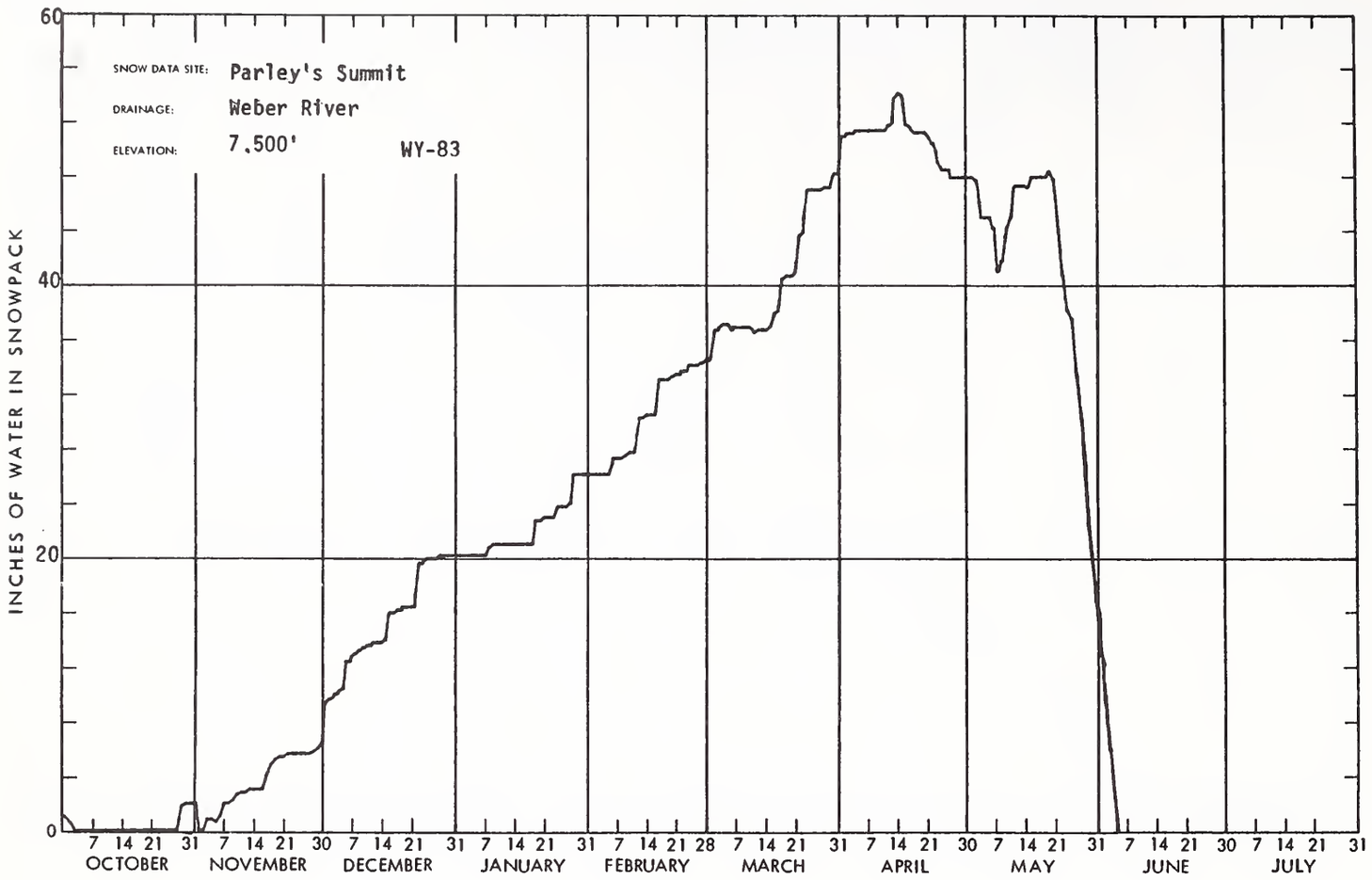

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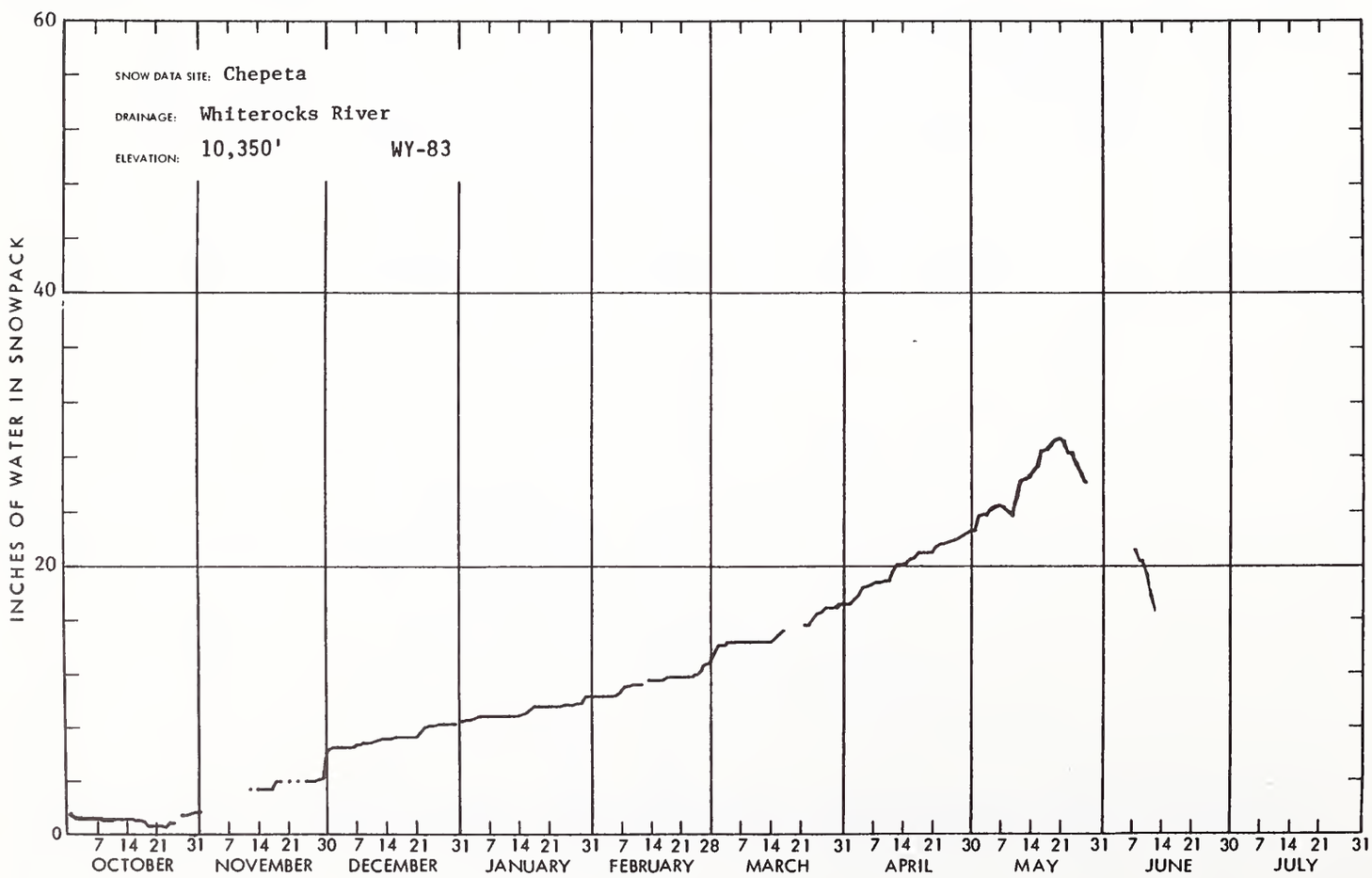

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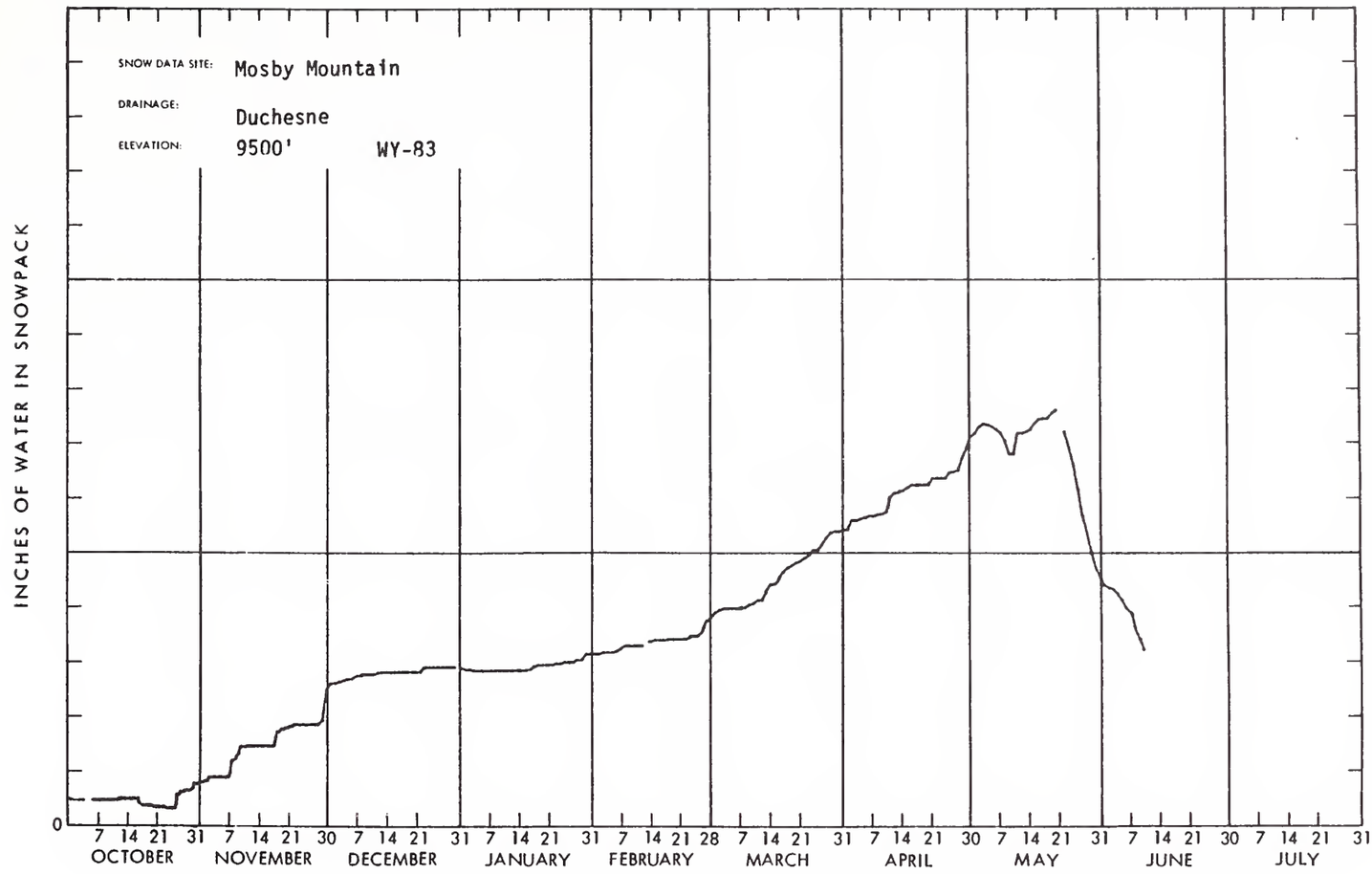

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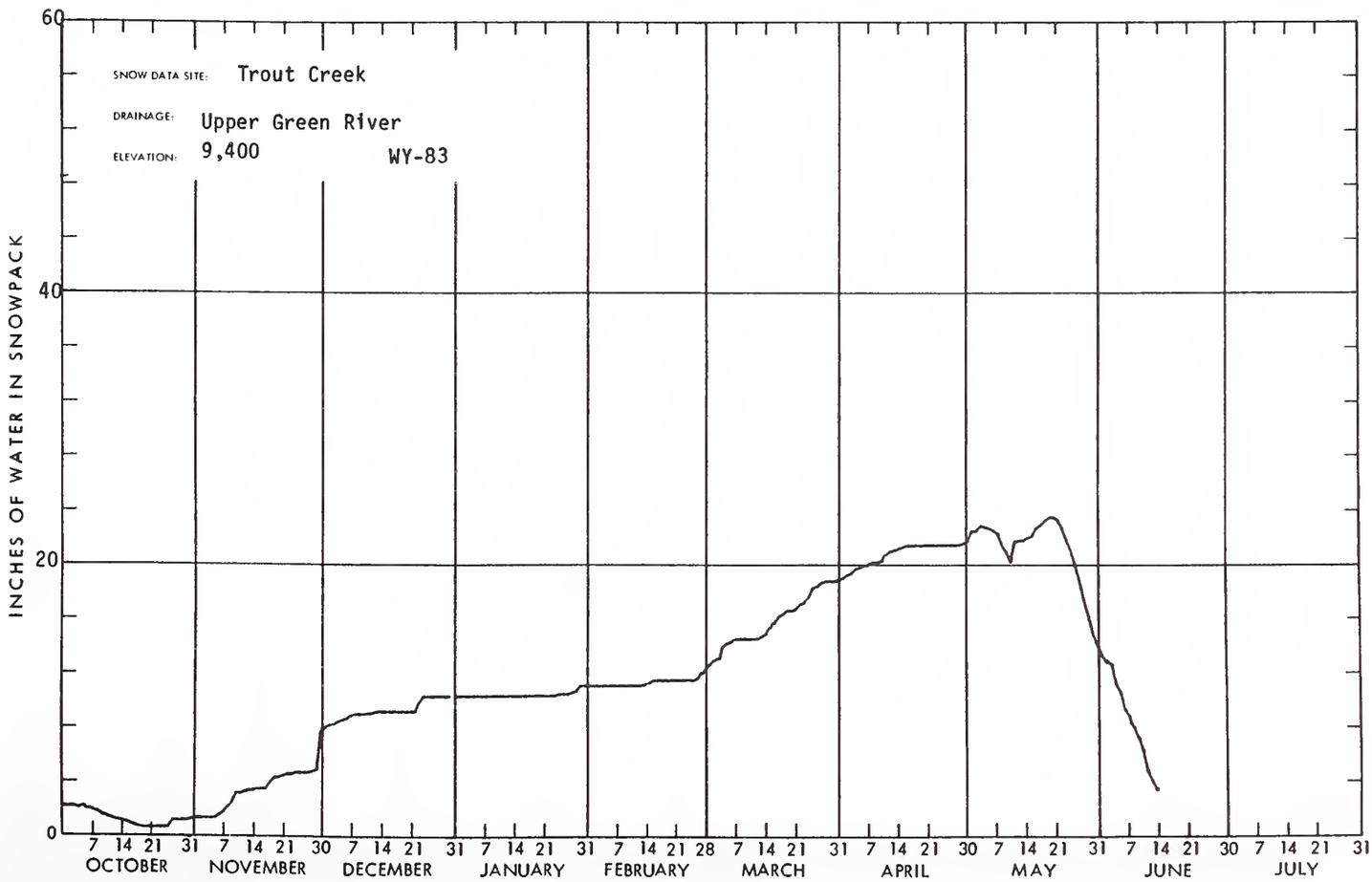

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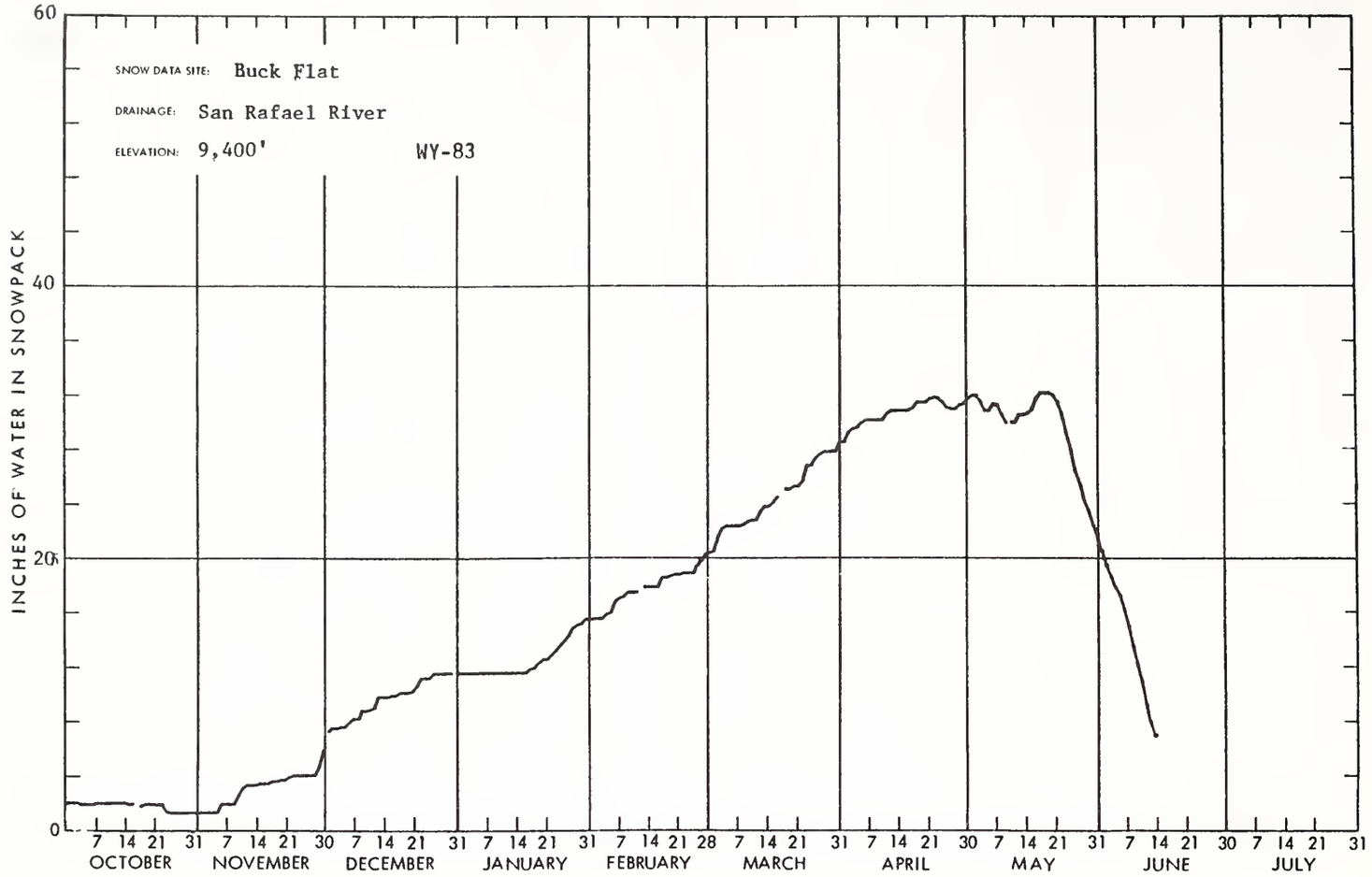

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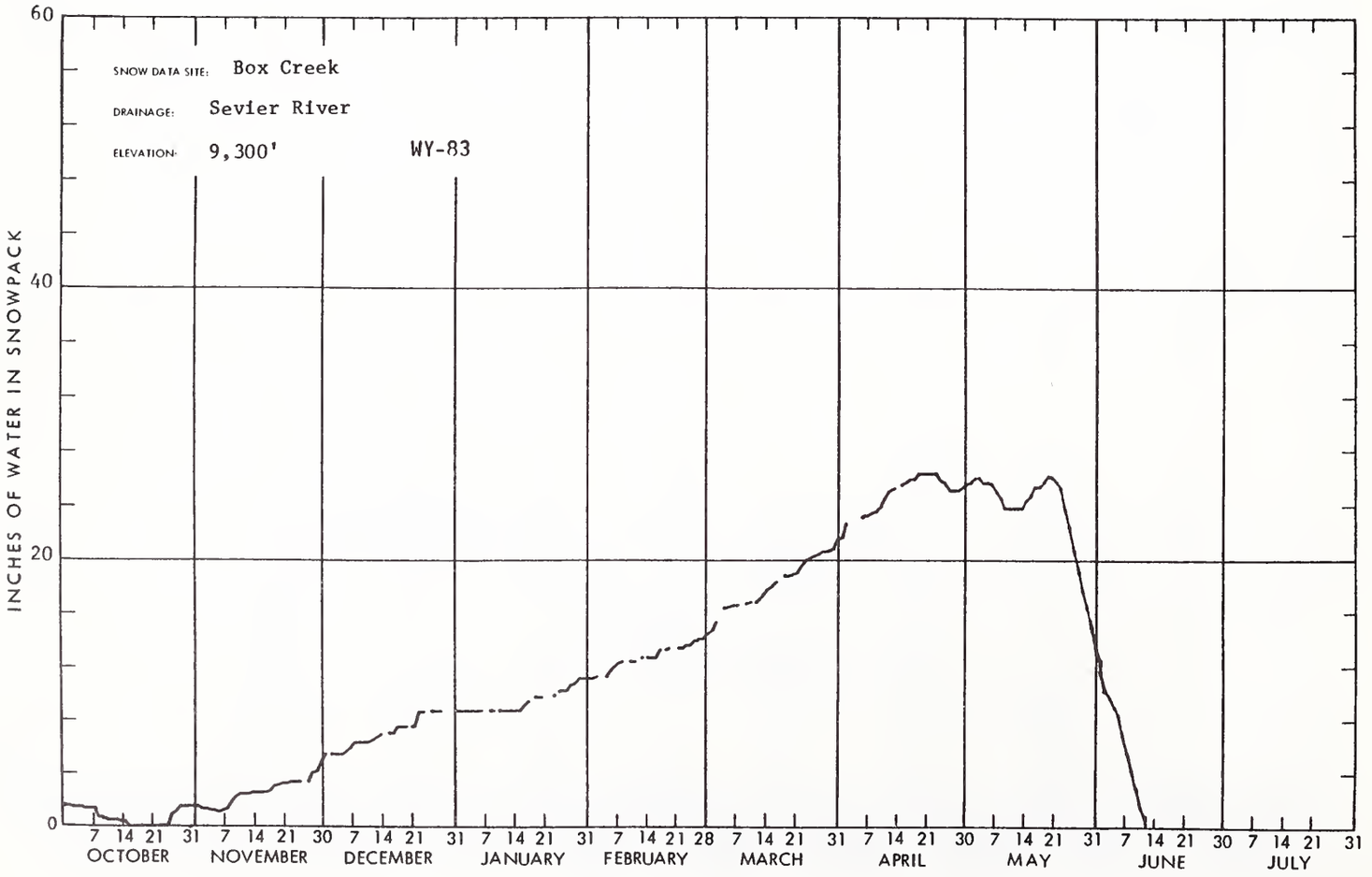

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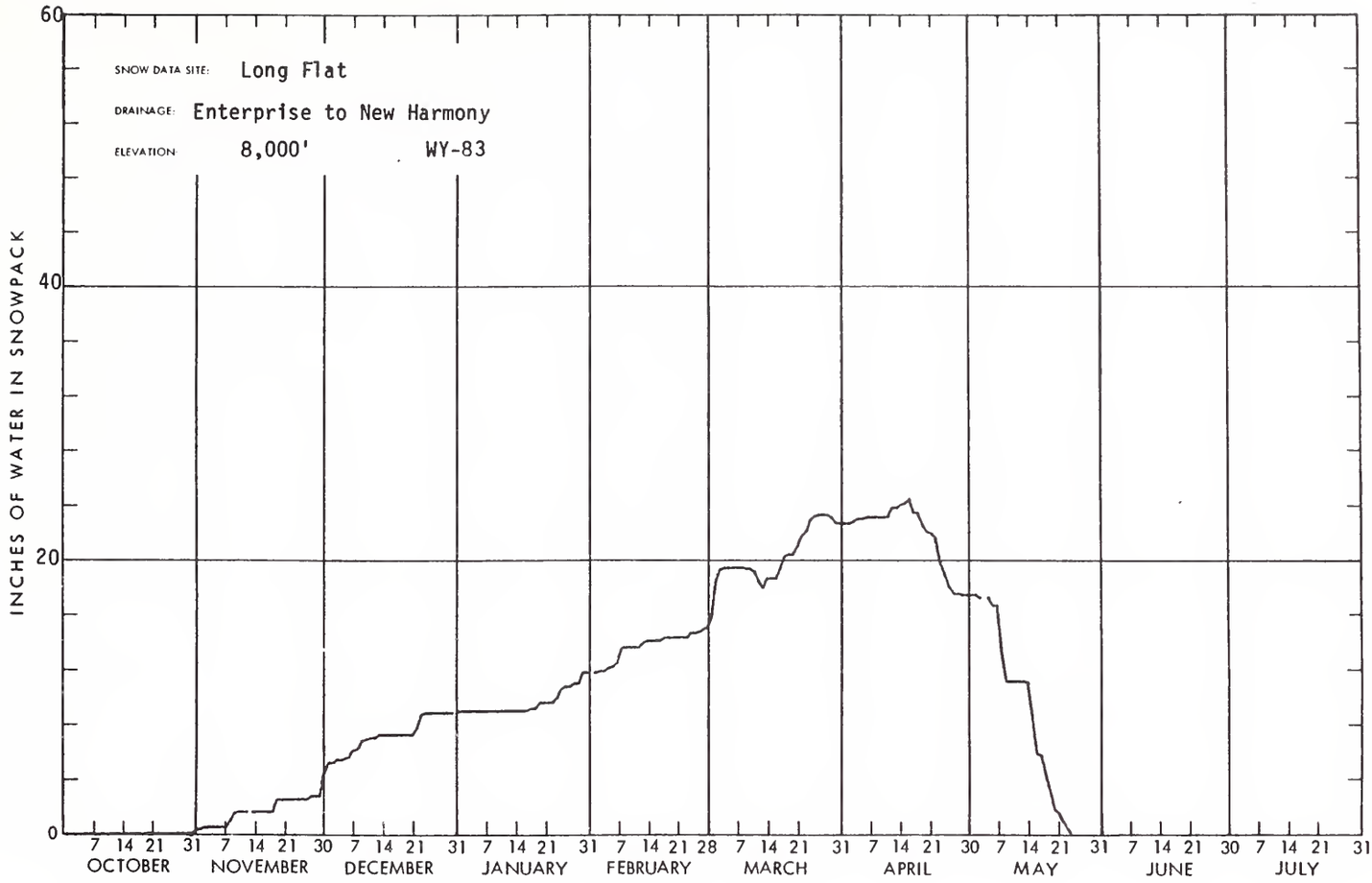
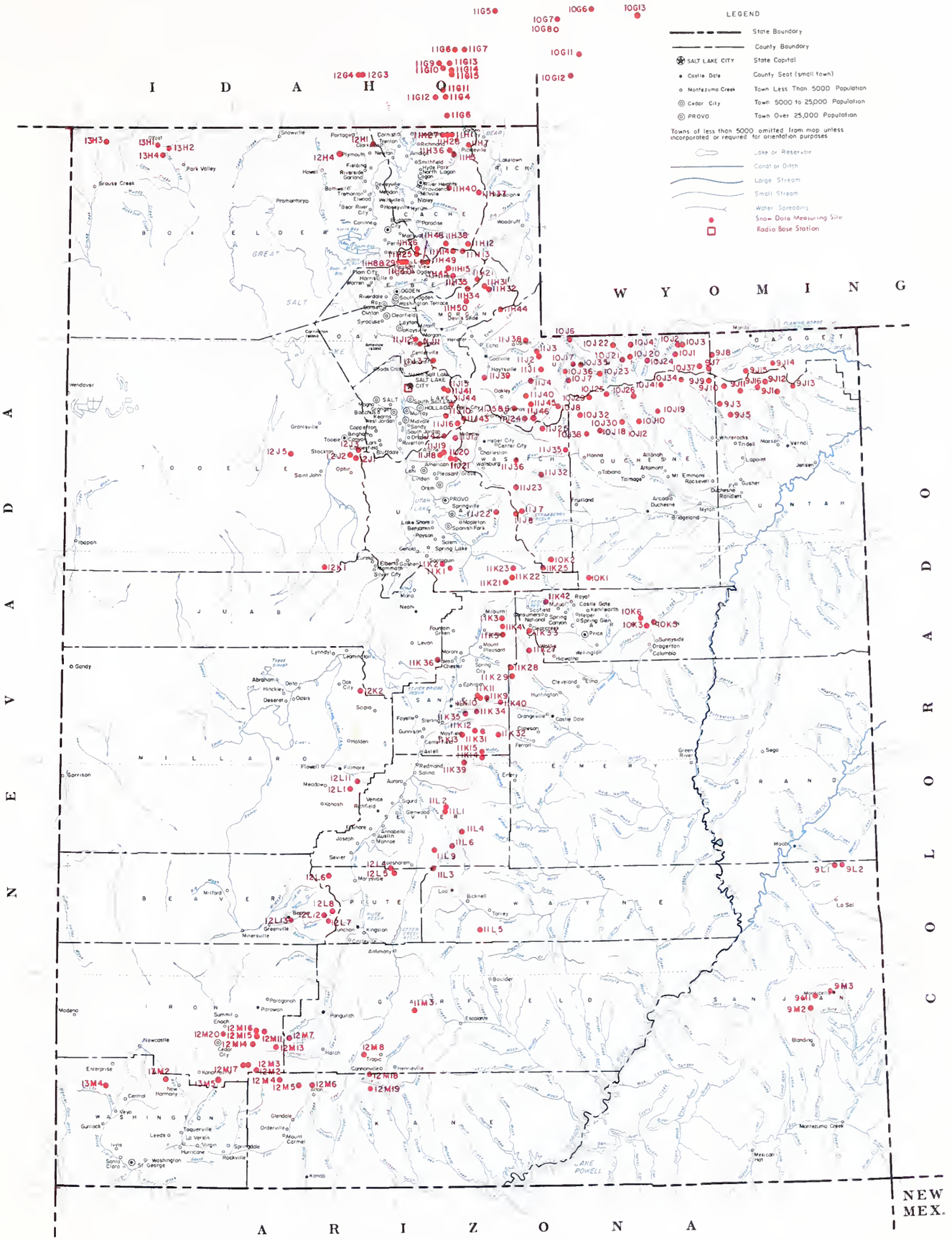

SNOW DATA SITE: Long Flat
DRAINAGE: Enterprise to New Harmony
ELEVATION: 8,000'
WY-83
INCHES OF WATER IN SNOWPACK
60
40
20
0
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY



SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1982

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

SCALE 1 : 1,500,000

ALBERS EQUAL AREA PROJECTION

USDA-SCS PORTLAND, OR 1981 M7-UT-7707

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO.	STATE	NAME	SEC	TWP	RGE.	ELEV
		UPPER BEAR RIVER (above Horer, Idaho)				
10G11	W	Big Park	7	27N	117W	8,700
10J6P	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	15	1N	9E	10,000
10J7PST	U	Hayden Fork	25	1N	9E	9,400
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10J35p	U	Lily Lake	34	2N	10E	9,050
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10G13MP	W	Snyder Basin x	15	29N	115W	8,400
10J17P	U	Stillwater Camp	32	2N	10E	8,550
		LOWER BEAR RIVER (below Horer, Idaho)				
11H37pST	U	Bug Lake	18	11N	5E	7,950
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H3Bp	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mountain	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11G14a	I	Dry Basin	30	13S	42E	7,900
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11GBMPST	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Gorden City Summit	34 & 35	14N	4E	7,600
11H40p	U	Herd Hollow	3	11N	3E	7,200
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,240
11H26	U	Little Bear (lower)	16	8N	1E	6,000
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H36PST	U	Tony Grove Lake	5	13N	3E	8,400
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250
11G4P	I	Willow Flat	2	15S	41E	6,100
		RAFT RIVER				
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050
13H4PS	U	George Peak	4	13N	14W	9,000
13H1	U	One Mile Summit	17	14N	14W	7,330
13H3a	U	ViPont	17	14N	17W	7,670
		OGDEN RIVER				
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000
11H30 PST	U	Ben Lomond Trail	2	7N	1W	6,000
11H35p	U	Cousey Dam	34	7N	3E	5,500
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,350
11H34p	U	Guilder's Peak	21	6N	4E	8,050
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420
11H49	U	Powder Mountain Hideaway	6	7N	2E	8,250
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400
11H15P	U	Sagebrush Flat	21	7N	3E	6,300
		WEBER RIVER				
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500
11J45a	U	East Shingle Lake	6	2S	8E	9,750
11J12P	U	Farmington Canyon (lower)	15	3N	1E	6,950
11J11PST	U	Farmington Canyon (upper)	23	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J37p	U	Hardscrabble	22	2N	2E	6,700
11H21PST	U	Horse Ridge	25	7N	4E	8,260
11H31	U	Kilfoil Creek	20	6N	5E	7,300
11H32P	U	Lost Creek	27	6N	5E	7,300
11J43	U	Park City Summit	30	2S	4E	9,300
11J15PST	U	Parley's Canyon Summit	5	1S	3E	7,500
11H50	U	Pine Canyon	6	5N	4E	8,000
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Redden Mine (lower)	1	2S	6E	8,500
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000
11J39pa	U	Sergeant Lakes	9	1N	6E	8,300
11J40p	U	Shingle Mill Flat	22	1S	7E	9,040
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600
		PROVO RIVER & UTAH LAKE				
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,280
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21PST	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22PST	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420
11J36P	U	Lake Creek	36	4S	6E	9,000
11K1P	U	Paysan R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750

NO.	STATE	NAME	SEC	TWP	RGE.	ELEV
		PROVO RIVER & UTAH LAKE (continued)				
11J25P	U	Soopstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J18	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J8PST	U	Trial Lake	5	2S	9E	9,960
		JORDAN RIVER & GREAT SALT LAKE				
12J2	U	Bevan's Cabin	24	4S	4W	6,450
12J3P	U	Deseret Peak	15	4S	7W	9,250
11J41P	U	Lomb's Canyon #2	21	1S	3E	7,500
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J44	U	Mill Creek	25	1S	2E	6,950
11J10	U	Mill D South Fork	18	2S	3E	7,400
12J1P	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11J42	U	Snow Bird (Gad Valley)	18	3S	3E	9,700
12K1PST	U	Vernon Creek	21	10S	5W	7,500
		UPPER SEVIER RIVER (South of Richfield, Utah)				
12L4PST	U	Box Creek	33	26S	2W	9,300
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13PST	U	Castle Valley	23	36S	8W	9,580
12M4P	U	Duck Creek R.S.	11	38S	8W	8,700
12M18	U	Farview	32	37S	4W	8,200
12M5PST	U	Harris Flat	24	38S	7W	7,700
11L9a	U	High-Top Mountain	36	25S	1E	11,400
12L6PST	U	Kimberly Mine	11	27S	5W	9,300
12M2MPST	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12M19	U	Rainbow Point	29	38S	4W	9,100
12L5	U	Squaw Springs	3	27S	2W	9,300
		LOWER SEVIER RIVER (Including San Pitch River)				
11K13P	U	Beaver Dam	22	19S	3E	8,000
11L1PST	U	Farnsworth Lake	34	23S	2E	9,600
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10P	U	G.B.R.C. Meadows	27	17S	4E	10,000
11L2PST	U	Gooseberry R.S.	21	23S	2E	8,000
11K3MPST	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
12K2P	U	Oak Creek	9	17S	3W	7,760
11K39PST	U	Pickle Keg Springs	4	21S	3E	9,000
12L1PS	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	20	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	19	18S	3E	8,760
		BEAVER RIVER				
12L13	U	Beaver Race Track	23	29S	7W	6,020
12L7PST	U	Big Flat	7	29S	4W	10,290
12L12PST	U	Merchant's Valley (upper)	8	29S	5W	8,750
12L8	U	Otter Lake	12	29S	5W	9,600
		PAROWAN CREEK				
12M16	U	Birch Crassing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M15P	U	Toll Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
		ENTERPRISE TO NEW HARMONY DRAINAGES				
13M4MP	U	Little Grossy Creek	14	38S	18W	6,100
13M2MPST	U	Long Flat	2	38S	14W	8,000
		COAL CREEK				
12M20	U	Cedar City Golf Course	11	36S	11W	5,800
12M17	U	SUSC Ranch	18	37S	9W	8,200

COLORADO RIVER DRAINAGE

NO.	STATE	NAME	SEC	TWP	RGE.	ELEV
		UPPER GREEN RIVER IN UTAH (above Duchesne River)				
9J11oP	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	2	1N	11E	9,700
9J14P	U	Burnt Creek	4	1N	20E	7,900
9J13P	U	Grizzly Ridge	8	1S	22E	8,500
10J24ap	U	Henry's Fork	29	2N	14E	10,000
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8P	U	Hickerson Park	13	2N	17E	9,100
9J15p	U	Highline Trail	24	1N	19E	10,250
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300

NO	STATE	NAME	SEC	TWP	RGE	ELEV
		UPPER GREEN RIVER IN UTAH (above Duchesne River) (continued)				
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730
10J37p	U	McCoy Pork	6	1N	17E	10,680
10J2	U	Middle Beaver Creek	31	3N	16E	8,650
9J10aP	U	Reynolds Park	9	1S	18E	10,400
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20PST	U	Steel Creek Park	17	2N	13E	10,100
9J16PST	U	Trout Creek	9	1S	20E	9,400
9J12ap	U	Windy Pork	2	1S	20E	9,400
		DUCHESNE RIVER				
10J41ap	U	Atwood Lake	13	4N	4W	10,840
10J30PST	U	Brown Duck Ridge	8	2N	6W	10,600
9J9ap	U	Chepeto-Whiterocks Lakes	3	4N	1W	10,350
11J32MPST	U	Currant Creek	26	1S	11W	8,000
11J23MPST	U	Doniels-Strawberry Summit	20	2S	12W	8,000
11J7P	U	East Portal	36	7S	6E	7,560
10J26ap	U	Five Point Lake	28	4N	5W	11,000
10K1PST	U	Indion Canyon	2	11S	10E	9,100
10J19P	U	Jockson Pork	25	3N	4W	10,600
10J34p	U	Kidney Lake	28	5N	3W	11,000
10J25ap	U	Lakefork Basin	13	4N	7W	11,100
10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J12	U	Lakefork Mountain #3	20	2N	4W	8,400
10J29ap	U	Lightning Lake	23	4N	8W	10,500
9J5PST	U	Mosby Mountain	33	3N	1E	9,500
9J3P	U	Paradise Pork	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J32p	U	Shadow Lake	29	3N	8W	10,150
11J8PST	U	Strawberry Divide	2	4S	12W	8,400
11J35P	U	West Fork of the Duchesne	22	1N	11W	9,480
		PRICE RIVER				
10K5M	U	Corral	32	13S	14E	8,200
11K42P	U	Dry Valley Divide Alternate	14	11S	7E	8,100
10K3M	U	Grassy Trail Creek-Left Fork	1	14S	13E	7,970
11K33MP	U	Mud Creek	4	14S	7E	8,600
10K6	U	Timberline	23	13S	13E	9,100
10K2MPST	U	White River #1	11	10S	8E	8,550
11K25	U	White River #3	30	10S	8E	7,400
		SAN RAFAEL RIVER				
11K31PST	U	Buck Flat	23	19S	4E	9,400
11K4	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5P	U	Huntington-Horseshoe	12	14S	5E	9,800
11K40P	U	Orange Olsen	31	17S	6E	7,200
11K28PST	U	Red Pine Ridge	5	16S	6E	9,200
11K9PST	U	Seeley Creek	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8	15S	7E	7,950
11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11K32	U	Wrigley Creek	27	19S	5E	9,000
		MUDDY RIVER				
11K14	U	Black's Fork	34	20S	4E	9,200
11K15PST	U	Dill's Camp	27	20S	4E	9,200
		FREMONT RIVER				
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,400
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3P	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
		SOUTHEASTERN UTAH DRAINAGES				
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,850
9M3	U	Monticello Park	25	33S	23E	7,050
		ESCALANTE RIVER				
11M3PST	U	Widtsoe-Escalonte #3	22	34S	1W	9,500
		VIRGIN RIVER				
13M5PST	U	Kolob-Crystal	2	38S	11W	9,250
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M3MPST	U	Webster Flat	20	37S	9W	9,200

LEGEND
Numbering System (example)

10J7	Snow Course Only.
10J7P	Snow Course and Precipitation Gage.
10J7M	Snow Course and Soil Moisture Station.
10J7A	Snow Course and Aerial Marker.
10J7MA	Snow Course, Soil Moisture Station and Aerial Marker.
10J7MP	Snow Course, Soil Moisture Station and Precipitation Gage
10J7a	Aerial Marker Only
10J7p	Storage Precipitation Gage Only.
10J7PS	Snow Course, Precipitation Gage, Snow Pillow and Temperature.
10J7PST	Sintel Data Site.

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service

STATE AGENCIES

- Utah State University
- Utah State Department of Natural Resources
  - Division of Wildlife Resources
  - Division of Water Resources
  - Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

MUNICIPALITIES

- Manti
- Salt Lake City

ORGANIZED PUBLIC AGENCIES

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

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